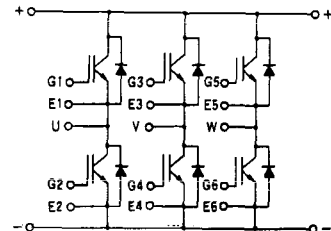
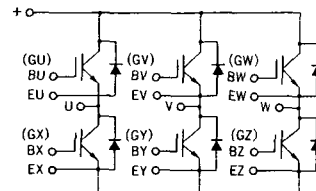
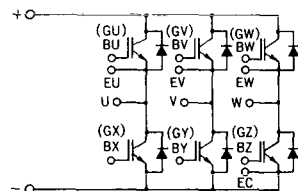


トランジスタ・モジュール [シリコンNチャネル・IGBT, 三相ブリッジ]

- ・ MOSゲート構造
 - ・ フリーホイール・ダイオード付
 - ・ 絶縁形
 - ・ U.L.認定品あり
- E 8 2 9 8 8 (M)

■等価回路



注1. $T_c = 25^\circ\text{C}$.

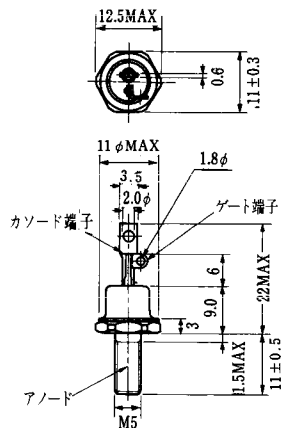
注2. AC, 1分間。

型 名	最 大 定 格										電 気 的 特 性 (T _C =25℃)													
	V _{CES}	V _{GES}	I _C	I _{CP}	I _F	I _{FM}	P _C	T _J	T _{stg}	V _{iso}	I _{GES}	I _{GES}	I _{GES}	V _{CES}	V _{GES}	V _{GE(OFF)}	V _{CE}	I _C	V _{CE(SAT)}	V _{GE}	I _C	V _{CE}	I _C	
	(V)	(V)	(A)	(I _{ms}) (A)	(A)	(I _{ms}) (A)	(W)	(℃)	(℃)	(V)	(mA) 最大	(V) 最大	(mA) 最大	(V) 最大	(V) 最小	(mA) 最大	(V) 最小	(V) 最大	(mA) 最大	(V) 最大	(V) 最大	(A) 最大	(V) 最大	(A) 最大
6MB18F-120	1200	±20	8	16	8	16	60	150	-40~125	2500	±100	±20	1.0	1200			3	6	20	8	2.5	15	8	
6MB18L-120	1200	±20	8	16	8	16	60	150	-40~125	2500	±100	±20	1.0	1200			3	6	20	8	3.5	15	8	
6MB110F-060	600	±20	10	20	10	20	40	150	-40~125	2500	±100	±20	1.0	600			3	6	20	10	2.5	15	10	
6MB110L-060	600	±20	10	20	10	20	40	150	-40~125	2500	±100	±20	1.0	600			3	6	20	10	3.5	15	10	
6MB115F-060	600	±20	15	30	15	30	60	150	-40~125	2500	±100	±20	1.0	600			3	6	20	15	2.5	15	15	
6MB115L-060	600	±20	15	30	15	30	60	150	-40~125	2500	±100	±20	1.0	600			3	6	20	15	3.5	15	15	
6MB115F-120	1200	±20	15	30	15	30	120	150	-40~125	2500	±100	±20	1.0	1200			3	6	20	15	2.5	15	15	
6MB115L-120	1200	±20	15	30	15	30	120	150	-40~125	2500	±100	±20	1.0	1200			3	6	20	15	3.5	15	15	
6MB120F-060	600	±20	20	40	20	40	80	150	-40~125	2500	±100	±20	1.0	600			3	6	20	20	2.5	15	20	
6MB120L-060	600	±20	20	40	20	40	80	150	-40~125	2500	±100	±20	1.0	600			3	6	20	20	3.5	15	20	
6MB125F-120	1200	±20	25	50	25	50	220	150	-40~125	2500	±100	±20	1.0	1200			3	6	20	25	2.5	15	25	
6MB125L-120	1200	±20	25	50	25	50	250	150	-40~125	2500	±100	±20	1.0	1200			3	6	20	25	3.5	15	25	
6MB130F-060	600	±20	30	60	30	60	120	150	-40~125	2500	±100	±20	1.0	600			3	6	20	30	2.5	15	30	
6MB130L-060	600	±20	30	60	30	60	120	150	-40~125	2500	±100	±20	1.0	600			3	6	20	30	3.5	15	30	
6MB150F-060	600	±20	50	100	50	100	220	150	-40~125	2500	±100	±20	1.0	600			3	6	20	50	2.5	15	50	
6MB150L-060	600	±20	50	100	50	100	250	150	-40~125	2500	±100	±20	1.0	600			3	6	20	50	3.5	15	50	
6MB150F-120	1200	±20	50	100	50	100	360	150	-40~125	2500	±100	±20	1.0	1200			3	6	20	50	2.5	15	50	
6MB150L-120	1200	±20	50	100	50	100	400	150	-40~125	2500	±100	±20	1.0	1200			3	6	20	50	3.5	15	50	
6MB175F-060	600	±20	75	150	75	150	290	150	-40~125	2500	±100	±20	1.0	600			3	6	20	75	2.5	15	75	
6MB175L-060	600	±20	75	150	75	150	325	150	-40~125	2500	±100	±20	1.0	600			3	6	20	75	3.5	15	75	
6MB1100F-060	600	±20	100	200	100	200	360	150	-40~125	2500	±100	±20	1.0	600			3	6	20	100	2.5	15	100	
6MB1100L-060	600	±20	100	200	100	200	400	150	-40~125	2500	±100	±20	1.0	600			3	6	20	100	3.5	15	100	

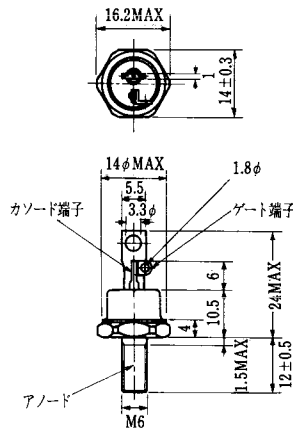
注3. スイッチング時間の t_r , t_{on} は抵抗負荷, t_r , t_{off} は誘導負荷における値。 注4. FD: フリーホイール・ダイオード。

C... (f=1 MHz)							エミッタ・コレクタ間ダイオード							熱抵抗		等 価 回 路	外形図	記 事	型 名		
C _{iss} (pF)	V _{CE} (V)	V _{GE} (V)	スイッチング時間 (μs)				R _θ (Ω)	I _C (A)	V _{CE} (V)	V _F (V)	I _F (A)	t _{rr} (ns)	I _F (A)	V _{GE} (V)	di/dt (A/μs)					θ _{J-c} (°C/W)	
			t _r	t _{on}	t _r	t _{off}														トランサジ部	444-F 大
標 準			最大	最大	最大	最大				最大	最大	最大	最大	最大	最大	最大	最大	最大			
1450	10	0	0.6	0.8	1.0	1.5	150	8	600	2.5	8	350	8	-10	50	2.08	3.3	F 6 1	M 6 0 4	UL認定済	GMB18F-120
1450	10	0	0.6	0.8	0.5	1.5	150	8	600	2.5	8	350	8	-10	50	2.08	3.3	F 6 1	M 6 0 4		GMB18L-120
950	10	0	0.6	0.8	1.0	1.5	220	10	300	2.5	10	300	10	-10	50	3.13	4.15	F 6 1	M 6 0 4		GMB110F-060
950	10	0	0.6	0.8	0.35	1.0	220	10	300	2.5	10	300	10	-10	50	3.13	4.15	F 6 1	M 6 0 4		GMB110L-060
1400	10	0	0.6	0.8	1.0	1.5	150	15	300	2.5	15	300	15	-10	50	2.08	3.3	F 6 1	M 6 0 4		GMB115F-060
1400	10	0	0.6	0.8	0.35	1.0	150	15	300	2.5	15	300	15	-10	50	2.08	3.3	F 6 1	M 6 0 4		GMB115L-060
2700	10	0	0.6	0.8	1.0	1.5	82	15	600	2.5	15	350	15	-10	50	1.04	2.01	F 6 2	M 6 0 7	UL認定済	GMB115F-120
2700	10	0	0.6	0.8	0.5	1.5	82	15	600	2.5	15	350	15	-10	50	1.04	2.01	F 6 2	M 6 0 7		GMB115L-120
1900	10	0	0.6	0.8	1.0	1.5	120	20	300	2.5	20	300	20	-10	100	1.56	3.01	F 6 1	M 6 0 4		GMB120F-060
1900	10	0	0.6	0.8	0.35	1.0	120	20	300	2.5	20	300	20	-10	100	1.56	3.01	F 6 1	M 6 0 4		GMB120L-060
4500	10	0	0.6	0.8	1.0	1.5	50	25	600	2.5	25	350	25	-10	75	0.568	1.33	F 6 3	M 6 1 6	UL認定済	GMB125F-120
4500	10	0	0.6	0.8	0.5	1.5	50	25	600	2.5	25	350	25	-10	75	0.5	1.0	F 6 3	M 6 1 6		GMB125L-120
2850	10	0	0.6	0.8	1.0	1.5	82	30	300	2.5	30	300	30	-10	100	1.04	2.01	F 6 2	M 6 0 7		GMB130F-060
2850	10	0	0.6	0.8	0.35	1.0	82	30	300	2.5	30	300	30	-10	100	1.04	2.01	F 6 2	M 6 0 7		GMB130L-060
4750	10	0	0.6	0.8	1.0	1.5	51	50	300	2.5	50	300	50	-10	150	0.568	1.33	F 6 3	M 6 1 6		GMB150F-060
4750	10	0	0.6	0.8	0.35	1.0	51	50	300	2.5	50	300	50	-10	150	0.5	1.0	F 6 3	M 6 1 6		GMB150L-060
9000	10	0	0.6	0.8	1.0	1.5	25	50	600	2.5	50	350	50	-10	150	0.347	0.666	F 6 3	M 6 1 6	UL認定済	GMB150F-120
9000	10	0	0.6	0.8	0.5	1.5	25	50	600	2.5	50	350	50	-10	150	0.312	0.6	F 6 3	M 6 1 6		GMB150L-120
7100	10	0	0.6	0.8	1.0	1.5	33	75	300	2.5	75	300	75	-10	225	0.431	0.888	F 6 3	M 6 1 6		GMB175F-060
7100	10	0	0.6	0.8	0.35	1.0	33	75	300	2.5	75	300	75	-10	225	0.385	0.85	F 6 3	M 6 1 6		GMB175L-060
9500	10	0	0.6	0.8	1.0	1.5	25	100	300	2.5	100	300	100	-10	300	0.347	0.666	F 6 3	M 6 1 6		GMB1100F-060
9500	10	0	0.6	0.8	0.35	1.0	25	100	300	2.5	100	300	100	-10	300	0.312	0.6	F 6 3	M 6 1 6		GMB1100L-060

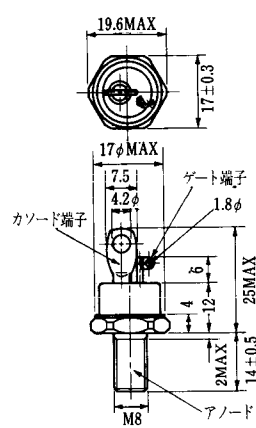
FD-1



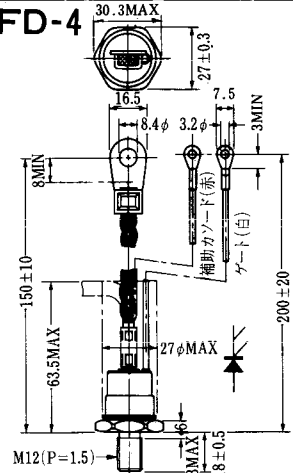
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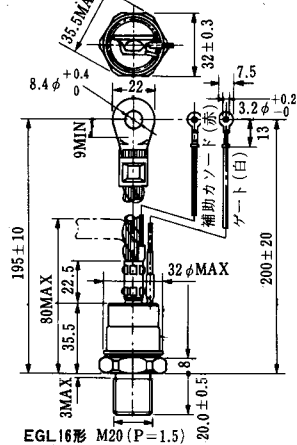
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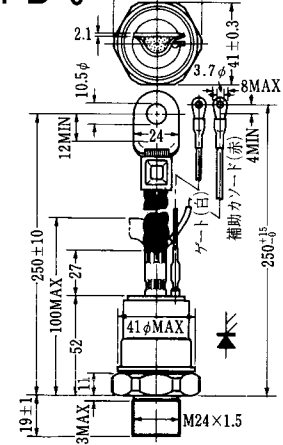
FD-4



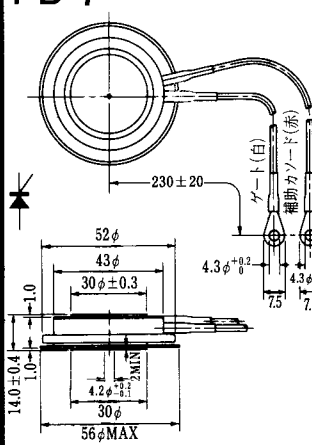
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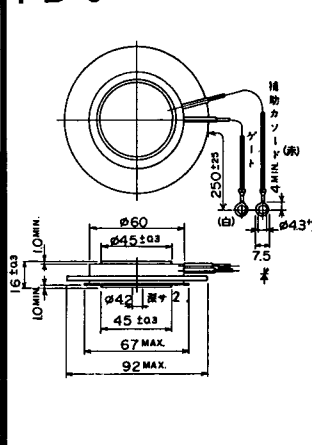
FD-6



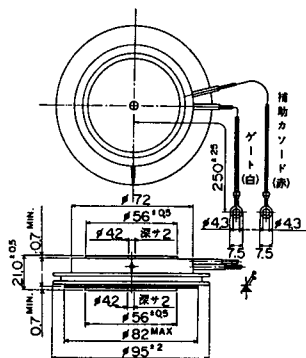
FD-7



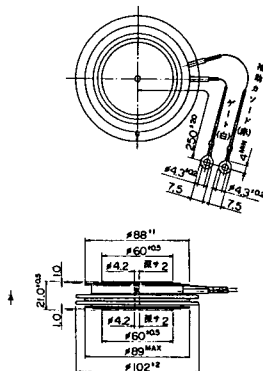
FD-8



FD-9

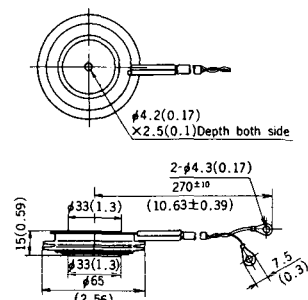
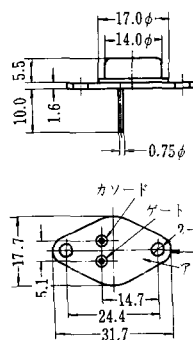
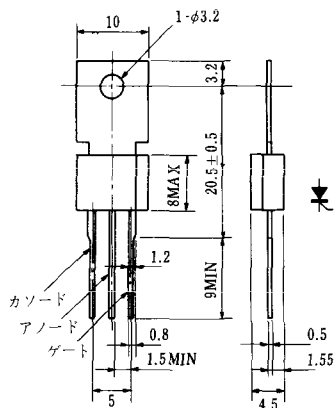


FD-10

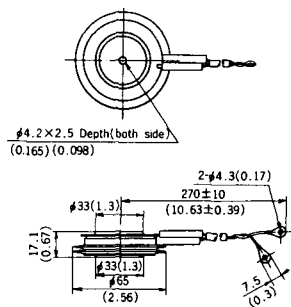


FD-11

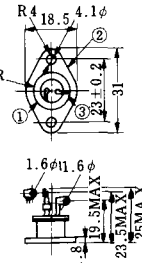
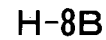
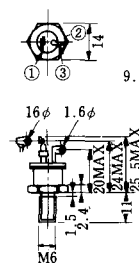
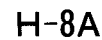
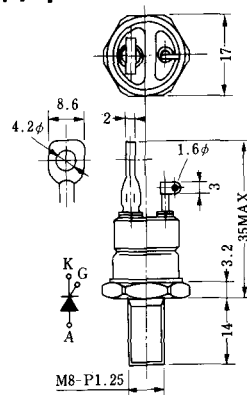
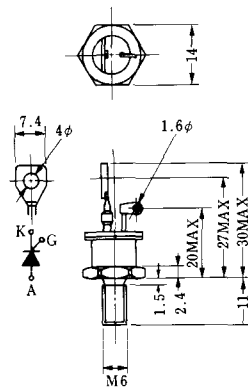
FD-12



Unit in mm(inch)



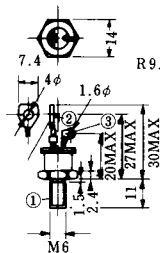
Unit in mm(inch)



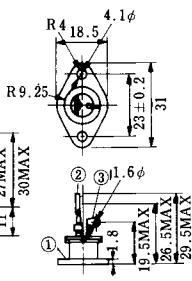
K
C
A

- ①アノード
②カソード
③ゲート

H-9A

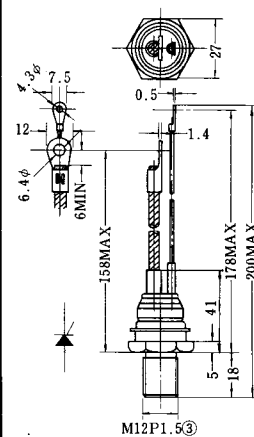


H-9B

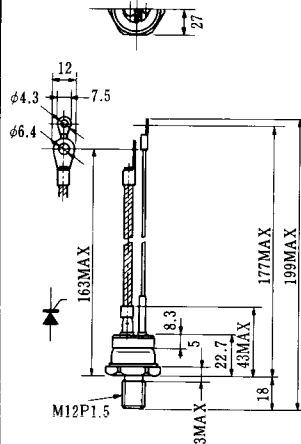


- ① アノード
- ② カソード
- ③ ゲート

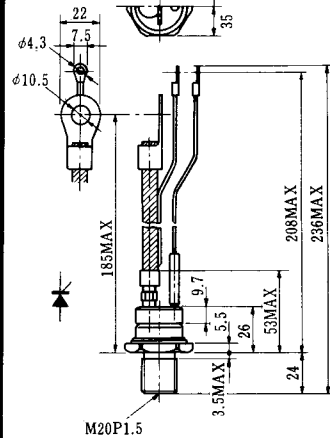
H-10



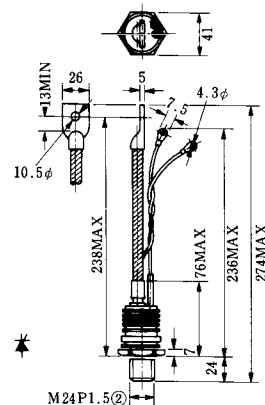
H-11



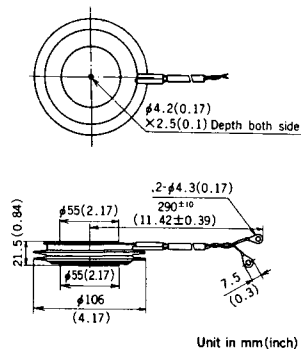
H-12



H-13

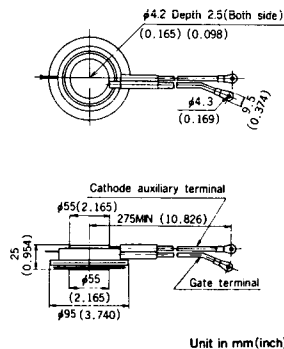


H-14



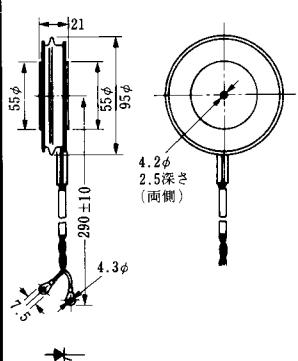
Unit in mm (inch)

H-15

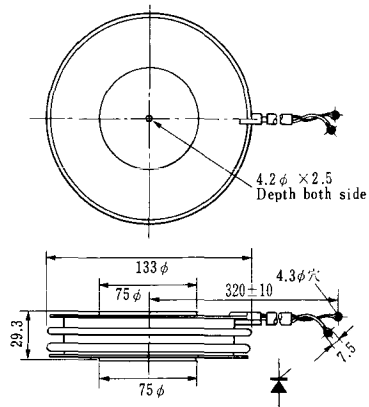


Unit in mm (inch)

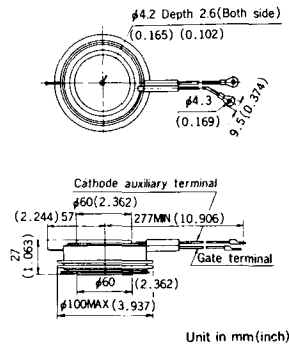
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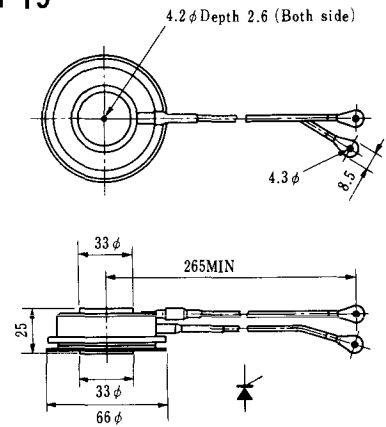
H-17



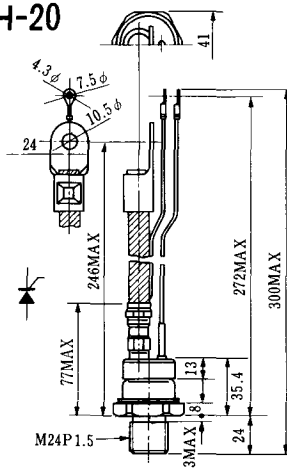
H-18



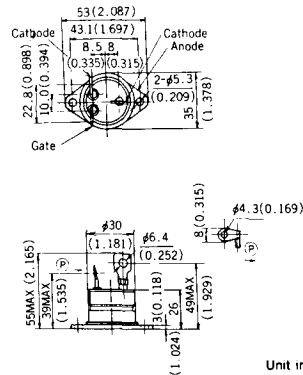
H-19



H-20

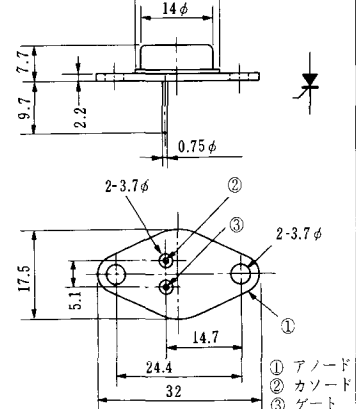


H-21

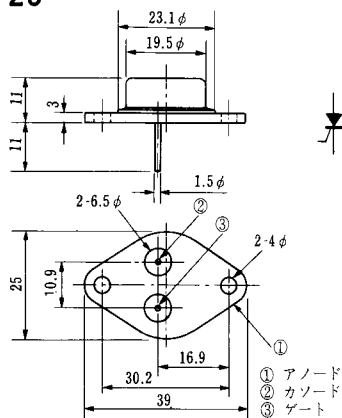


Unit in mm (inch)

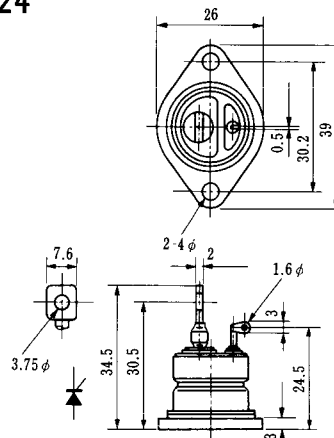
H-22



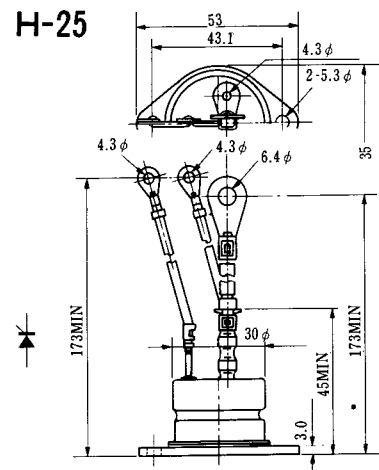
H-23



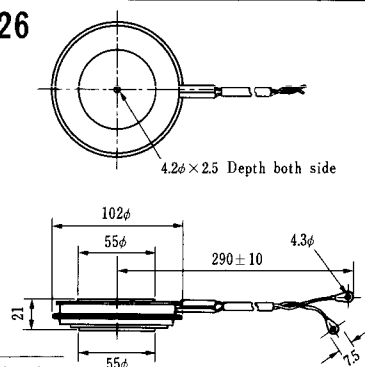
H-24



H-25

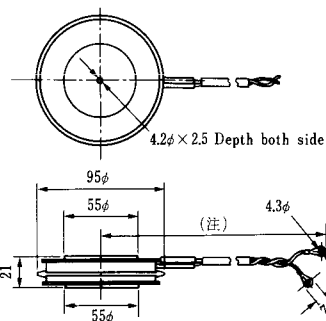


H-26



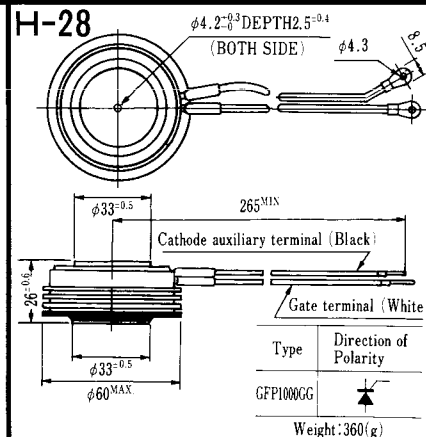
Type	Direction of polarity
CA12	

H-27



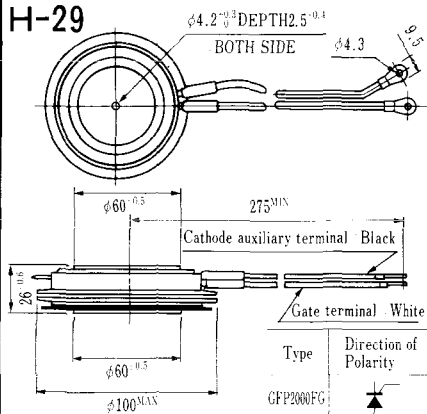
Type	Direction of polarity
CF11V	

H-28



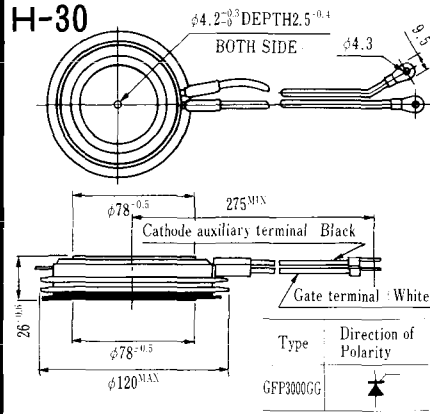
Note: The thickness is a dimension in press at the rated mounting force.

H-29



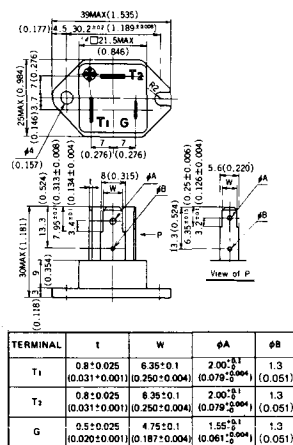
Note : The thickness is a dimension in press at the rated mounting force.

H-30



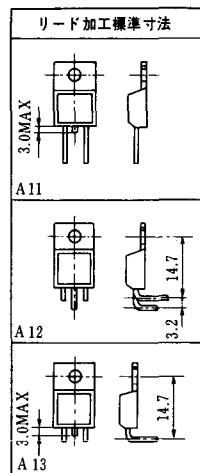
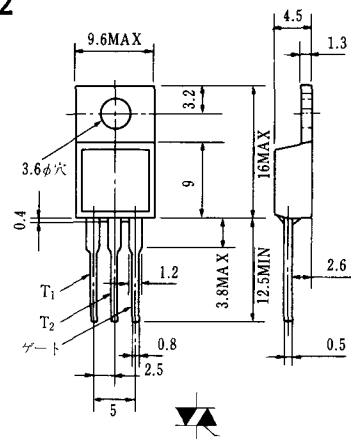
Note : The thickness is a dimension in press at the rated mounting force.

HT-1

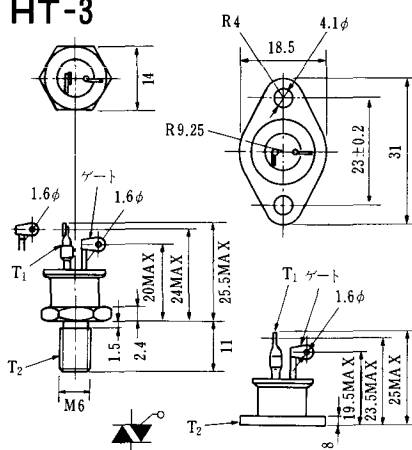


Unit in mm (inch)

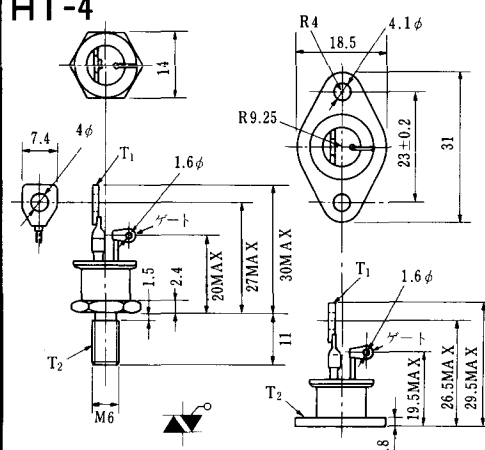
HT-2



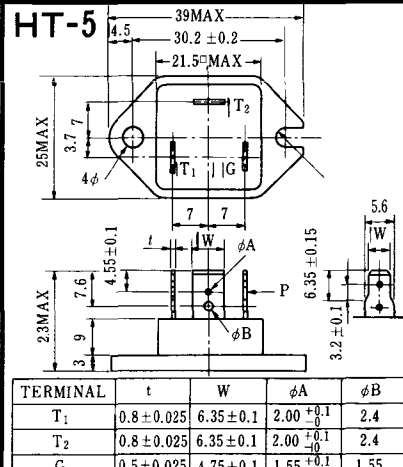
HT-3



HT-4

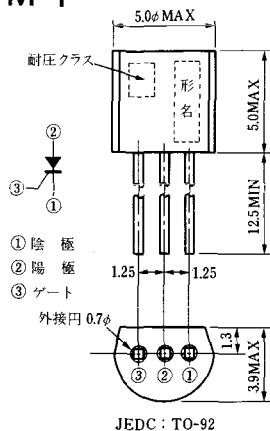


HT-5

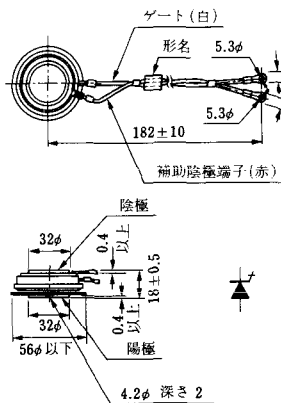


《寸法図単位：mm》

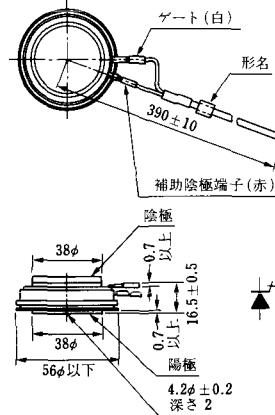
M-1



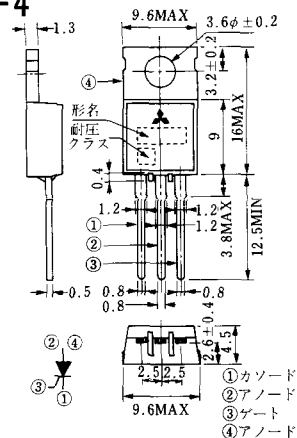
M-2



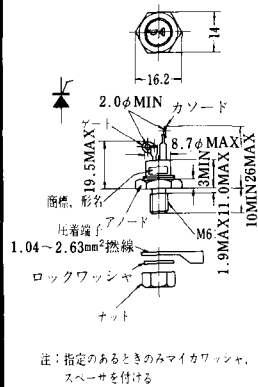
M-3



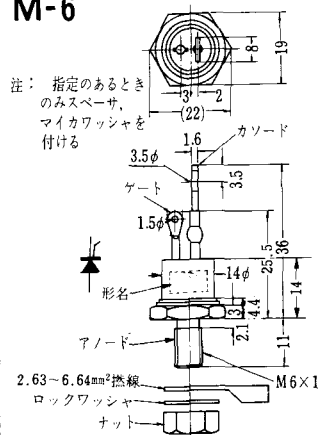
M-4



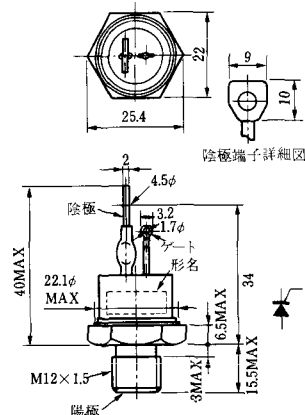
M-5



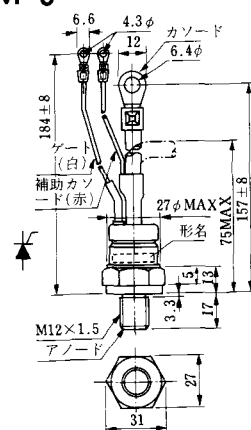
M-6



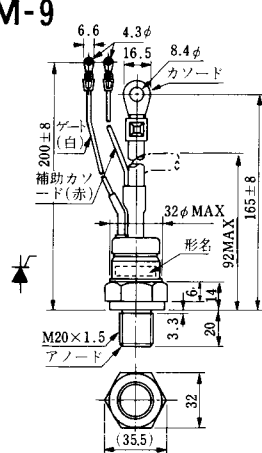
M-7



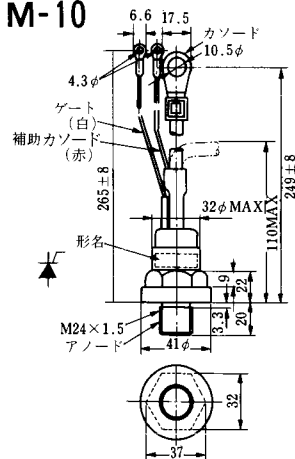
M-8



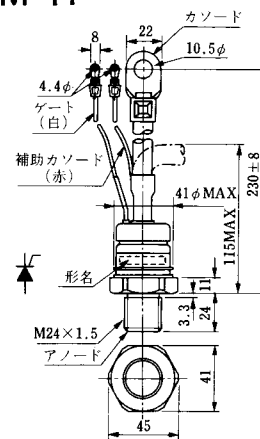
M-9



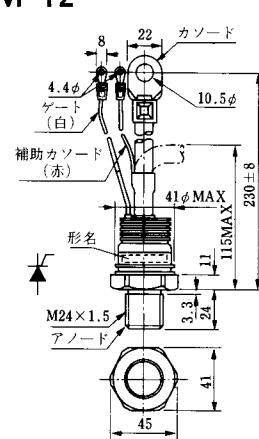
M-10



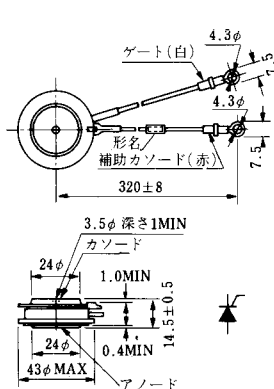
M-11



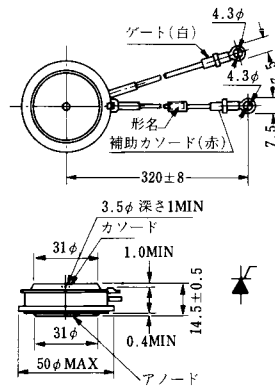
M-12



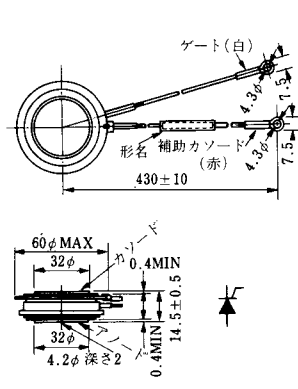
M-13



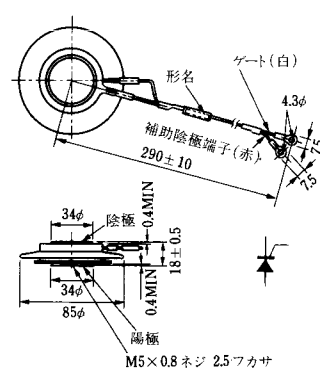
M-14



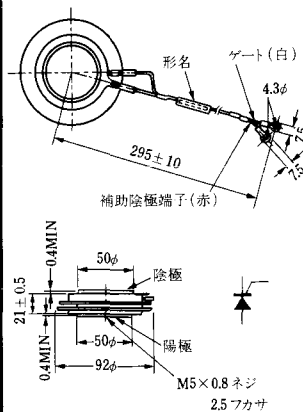
M-15



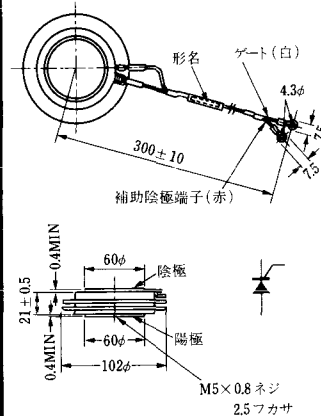
M-16



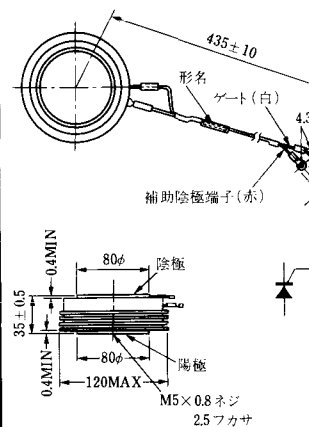
M-17



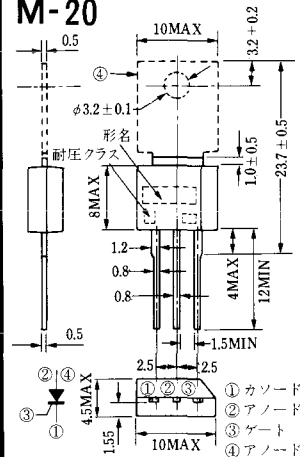
M-18



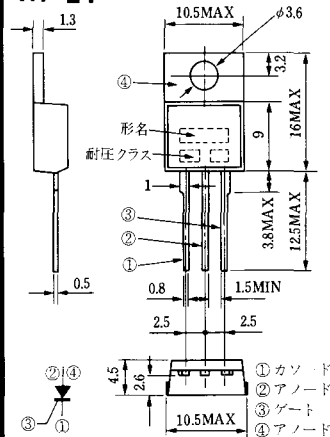
M-19



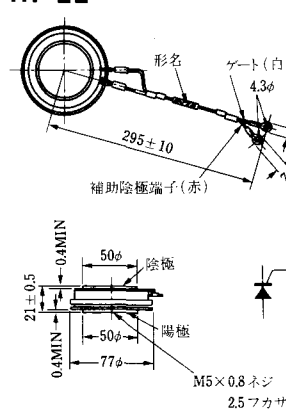
M-20



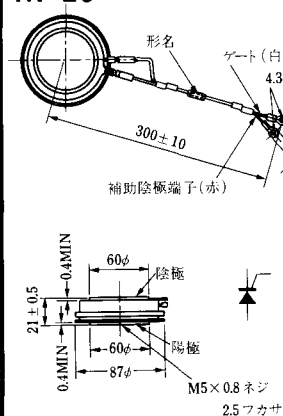
M-21



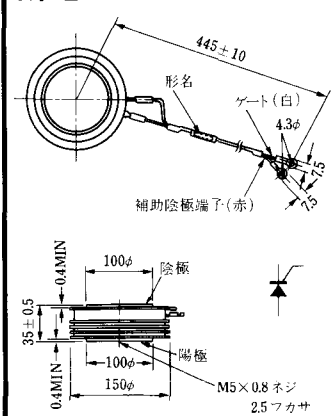
M-22



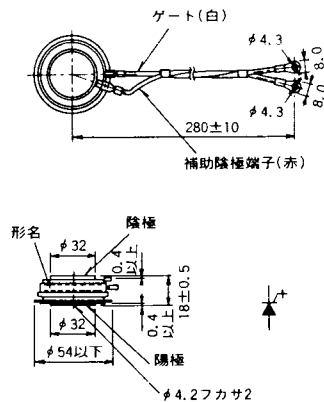
M-23



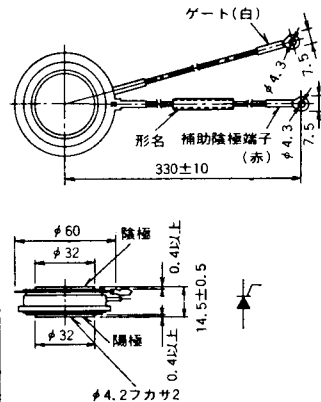
M-24



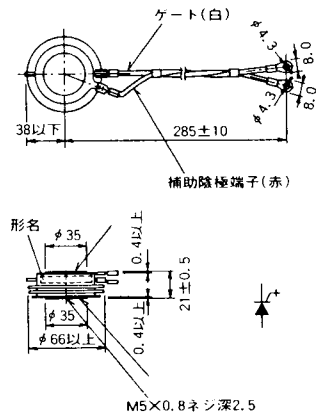
M-25



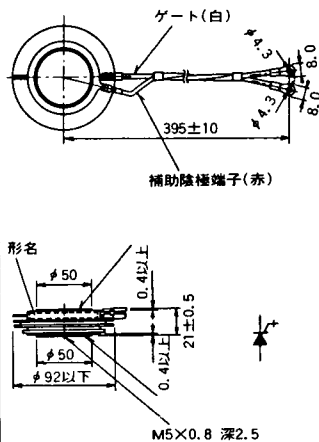
M-26



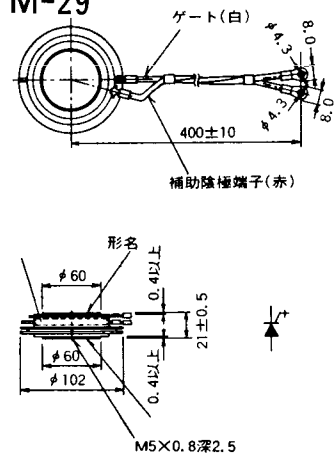
M-27



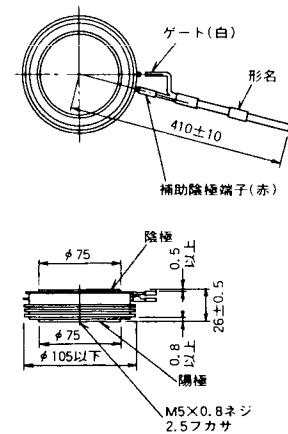
M-28



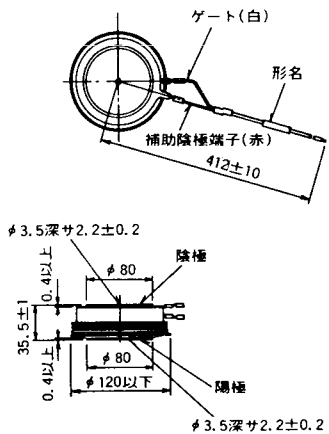
M-29



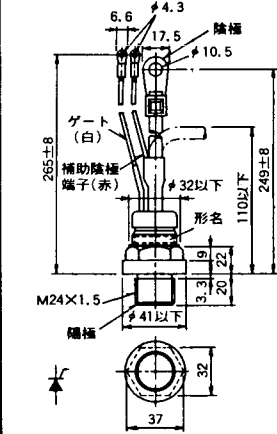
M-30



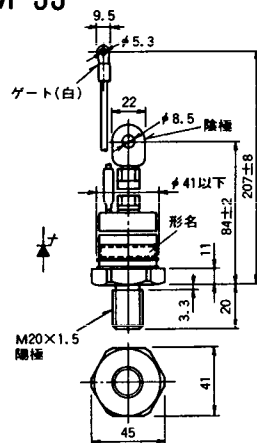
M-31



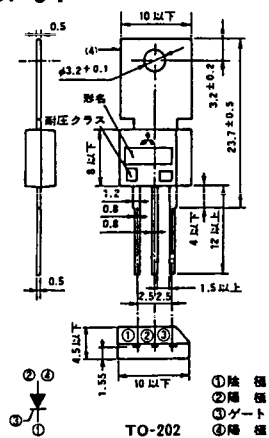
M-32



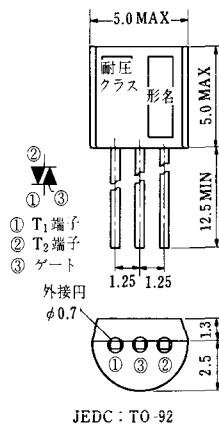
M-33



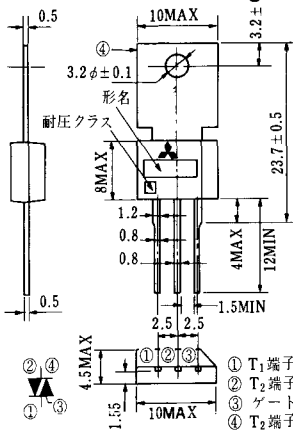
M-34



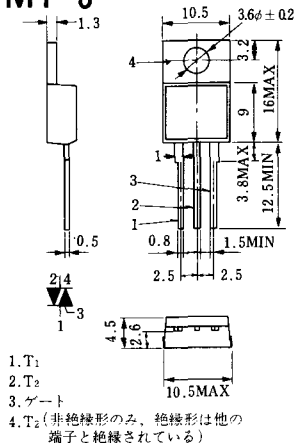
MT-1



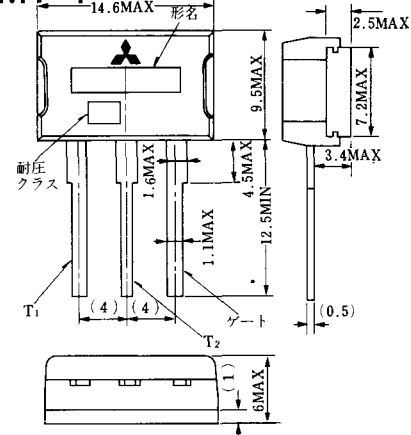
MT-2



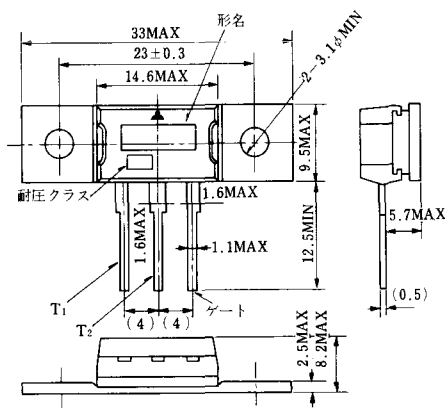
MT-3



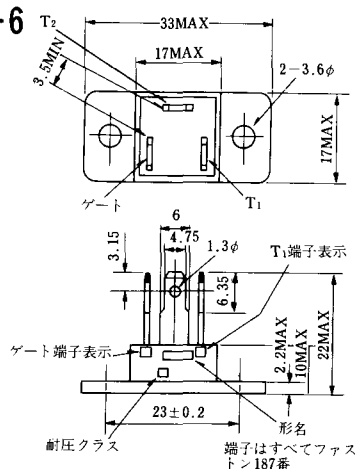
MT-4



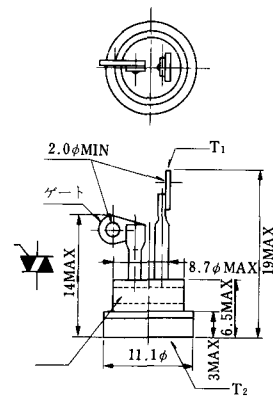
MT-5



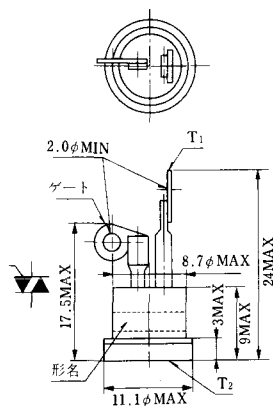
MT-6



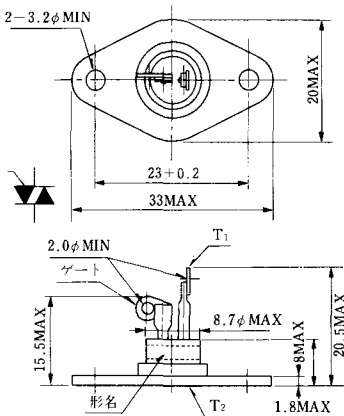
MT-7



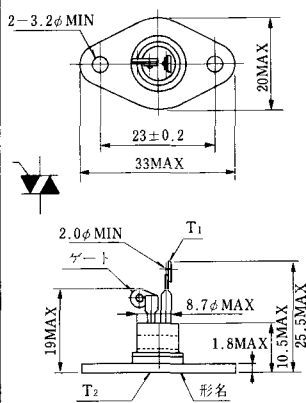
MT-8



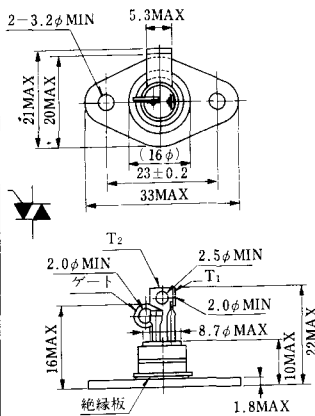
MT-9



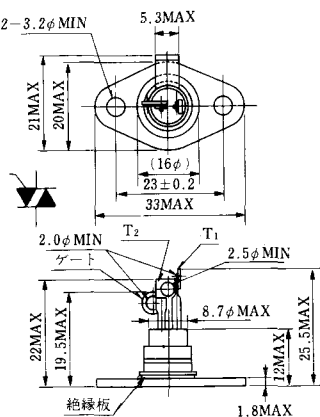
MT-10



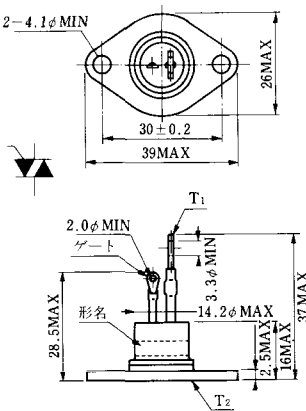
MT-11



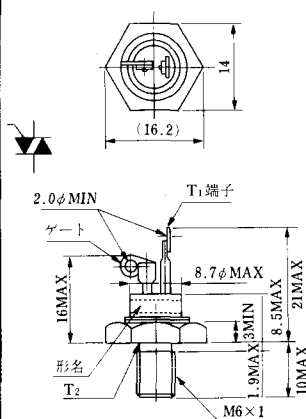
MT-12



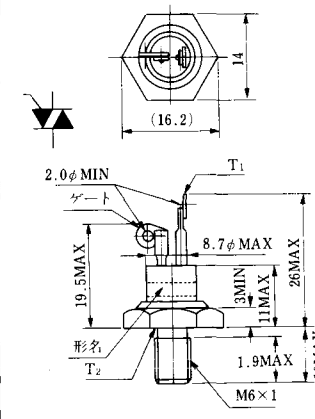
MT-13



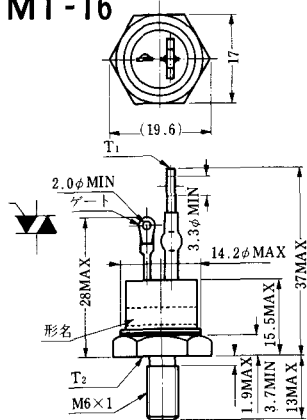
MT-14



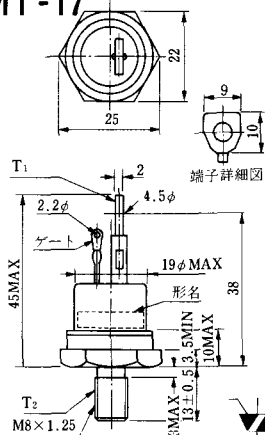
MT-15



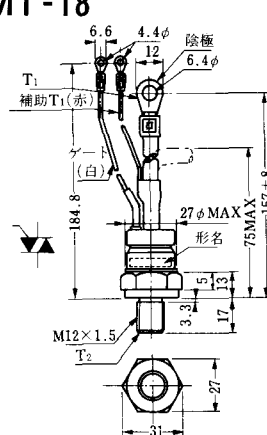
MT-16



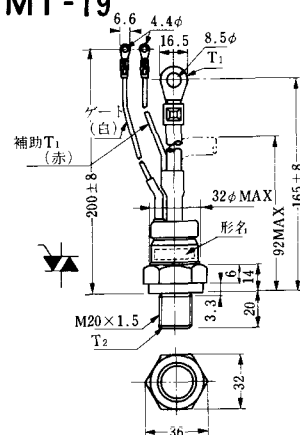
MT-17



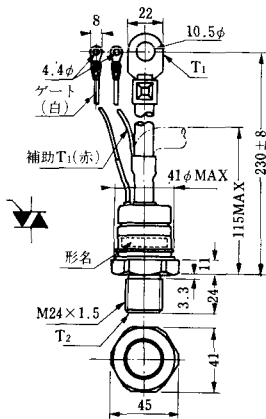
MT-18



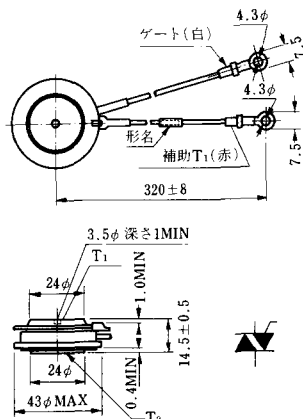
MT-19



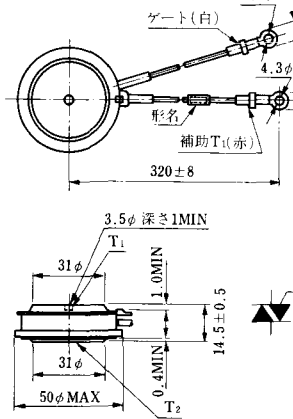
MT-20



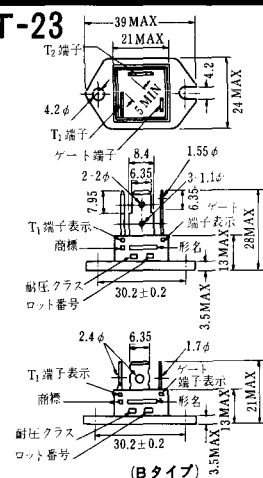
MT-21



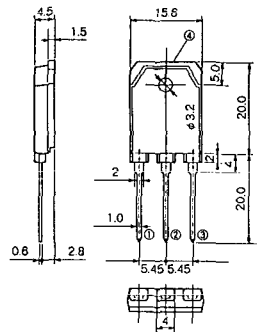
MT-22



MT-23



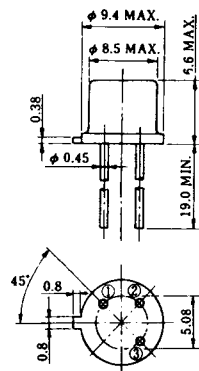
MT-24



TO-3P

- ① T1 端子
- ② T2 端子
- ③ ゲート 端子
- ④ T2 端子

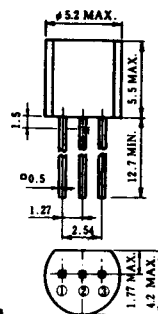
N-1



電極接続

- ① カソード
- ② ゲート
- ③ アノード

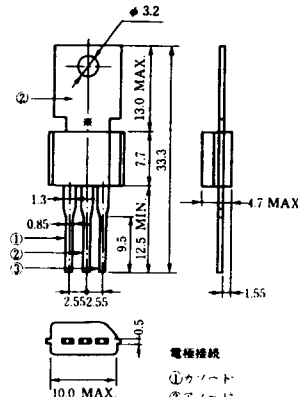
N-2



電極接続

- ① ヤート
- ② アノード
- ③ カソード

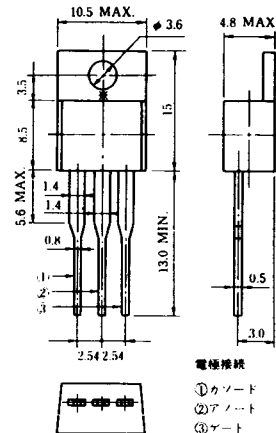
N-3



電極接続

- ① カソード
- ② アノード
- ③ ゲート

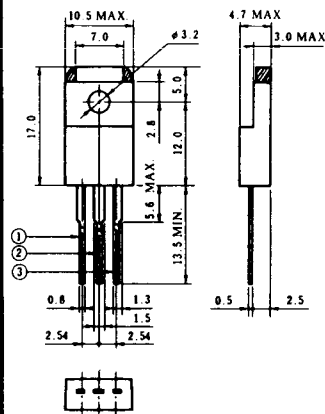
N-4



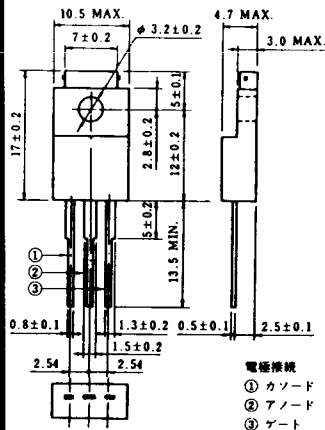
電極接続

- ① カソード
- ② アノード
- ③ ゲート

N-5



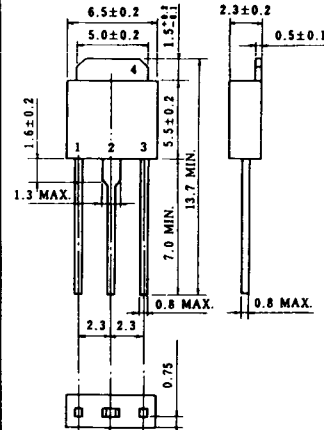
N-6



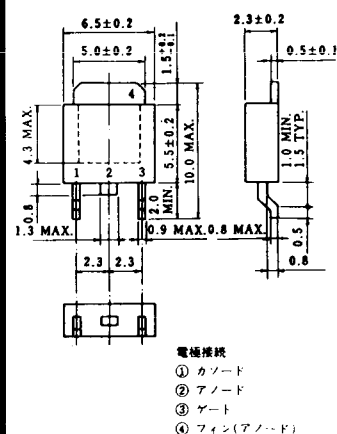
電極接続

- ① カソード
- ② アノード
- ③ ゲート

N-7



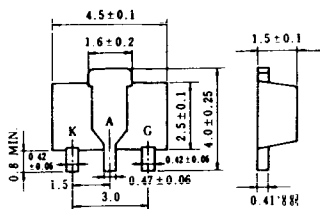
N-8



電極接続

- ① カソード
- ② アノード
- ③ ゲート
- ④ フィン(アノード)

N-9



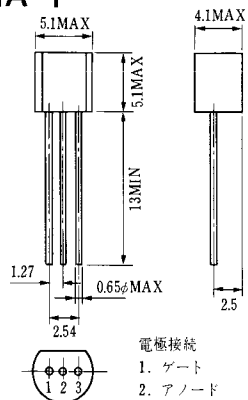
電極接続

K : カソード

A : アノード

G : ゲート

NA-1

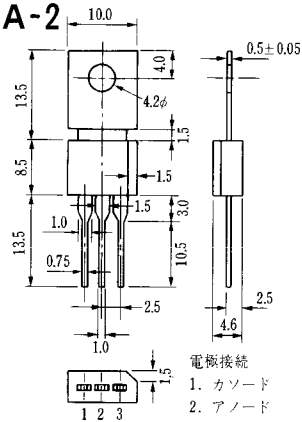


電極接続

1. ゲート
2. アノード
3. カソード

JEDEC: TO-92

NA-2



電極接続

1. カソード
2. アノード
3. ゲート

JEDEC: TO-202AA



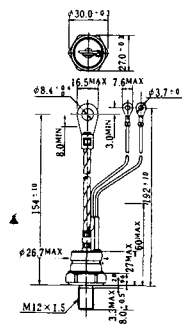
29RD



39RC
59RC
39RF
59RF



68RP, 88RP, 108RP, 68RS,
88RS, 78RT, 88RLD, 88RLE,
88RLF, 88RLG, 88RLH, 108RLE



NI-5

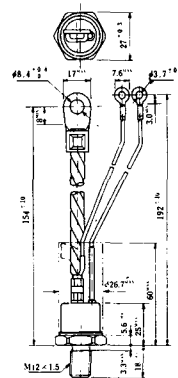
158RP, 208RP, 128RS, 178RS,
158RT, 178RLD, 178RLE,
178RLF, 178RLG, 178RLH,
208RLE



308RP, 408RP, 508RP, 278RS,
358RS, 258RT, 258RLD, 258RLG,
258RLH, 308RLE, 308RLF,
358RLE

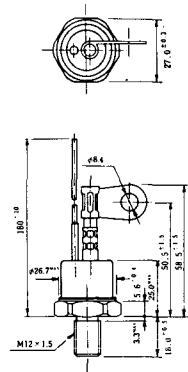


89RW^r J L
129RW^r J L



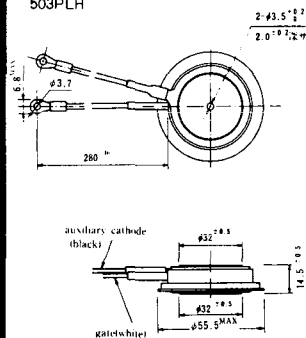
NI-8

89RW
129RW



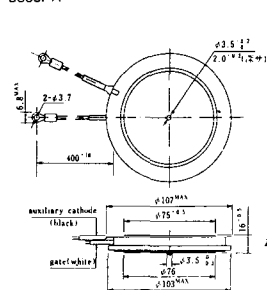
NI-16

503PLF
503PLH



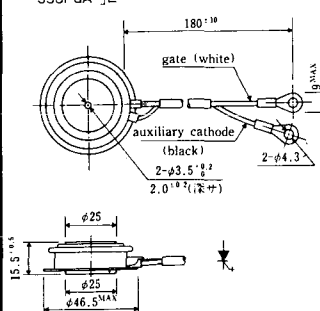
NI-17

3003PA



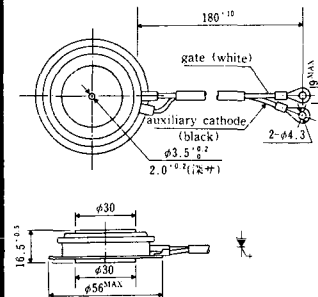
NI-18

353PGA「E



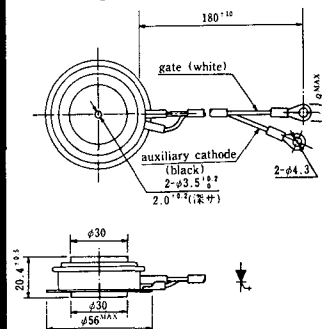
NI-19

603PGA, 603PGA「A, 803PGA



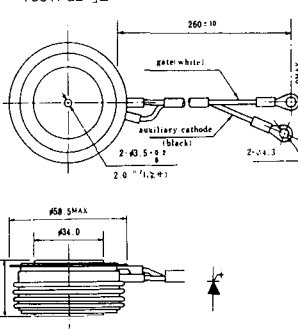
NI-20

603PGA「E



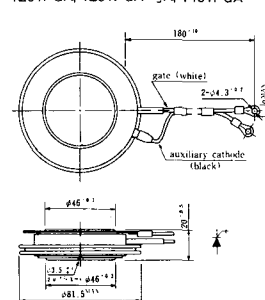
NI-21

1001PGB「E



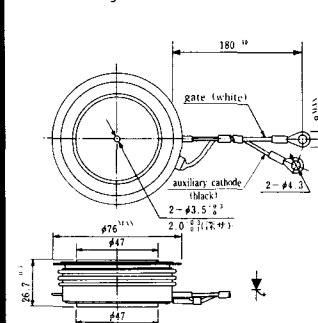
NI-22

1201PGA, 1201PGA「A, 1401PGA



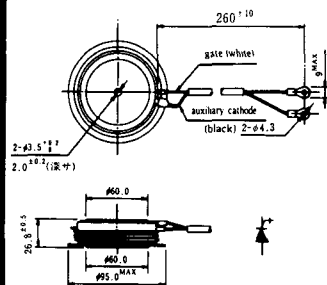
NI-23

1201PGA「E



NI-24

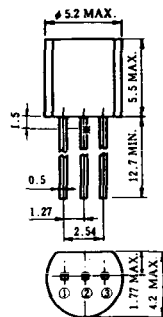
2001PGB¹ J_E



NI-25

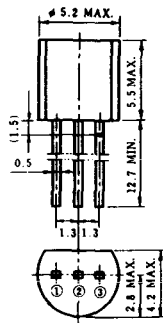
NI-26

NT-1



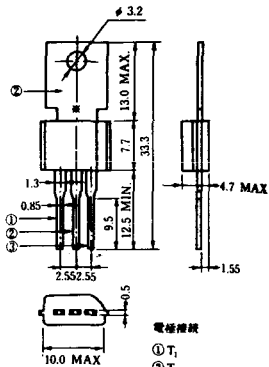
電極接続
① T₁
② ゲート
③ T₂

NT-2



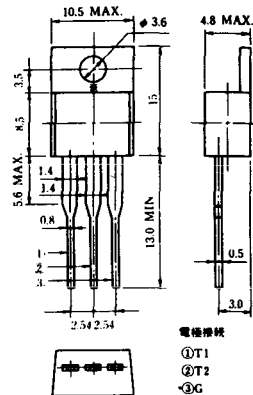
電極接続
① T₁
② ゲート
③ T₂

NT-3



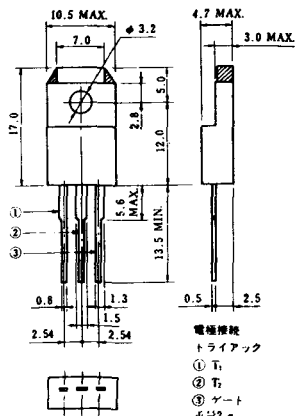
電極接続
① T₁
② T₂
③ ゲート

NT-4



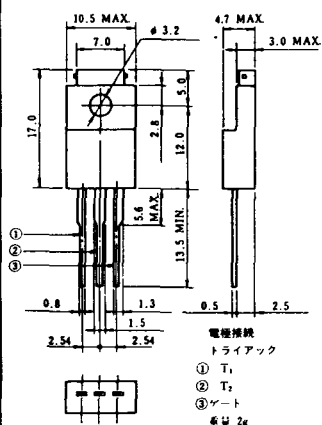
電極接続
① T₁
② T₂
③ G

NT-5



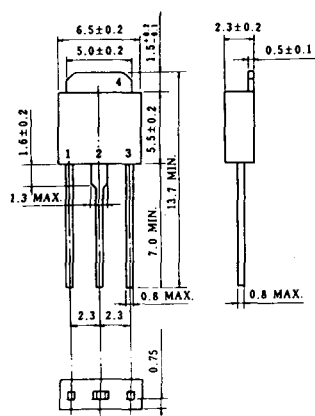
電極接続
トリアック
① T₁
② T₂
③ ゲート
※ 2g

NT-6

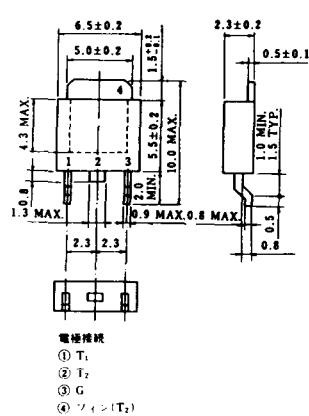


電極接続
トリアック
① T₁
② T₂
③ ゲート
※ 2g

NT-7

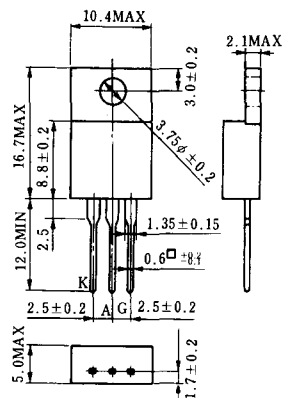


NT-8

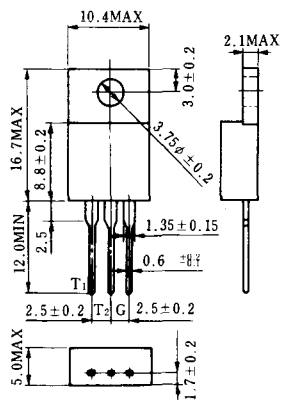


電極接続
① T₁
② T₂
③ G
④ フォイン(T₂)

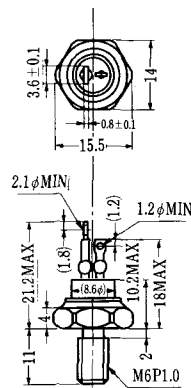
S-1



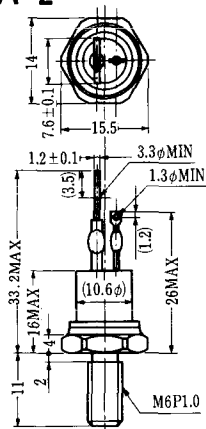
ST-1



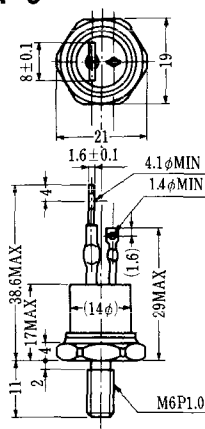
SA-1



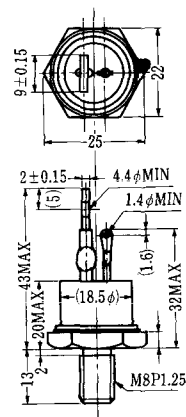
SA-2



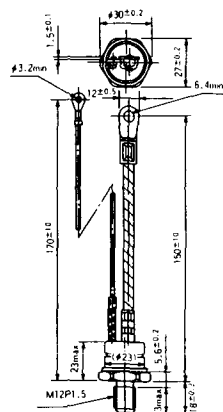
SA-3



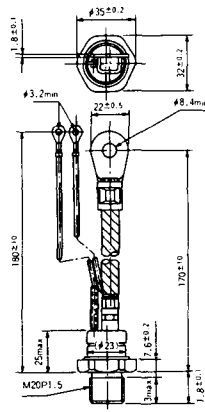
SA-4



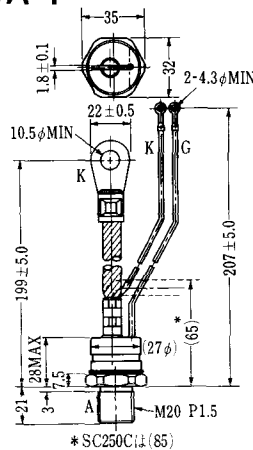
SA-5



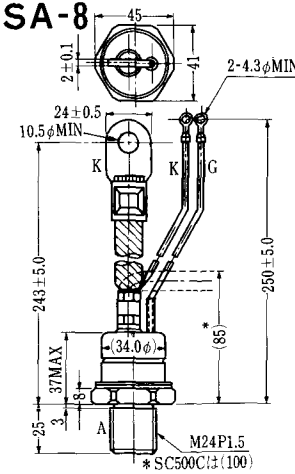
SA-6



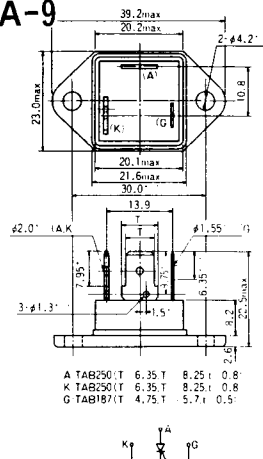
SA-7



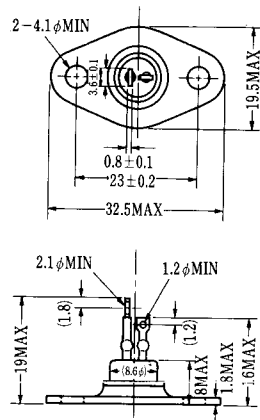
SA-8



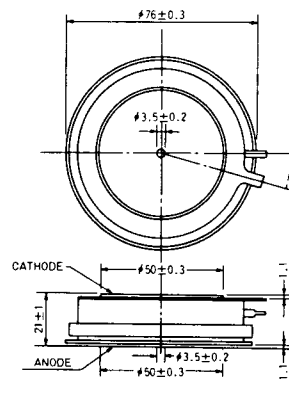
SA-9



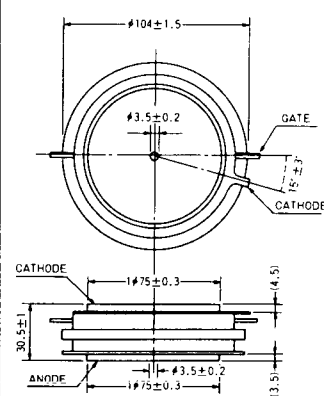
SA-10



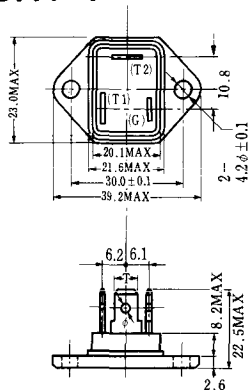
SA-11



SA-12

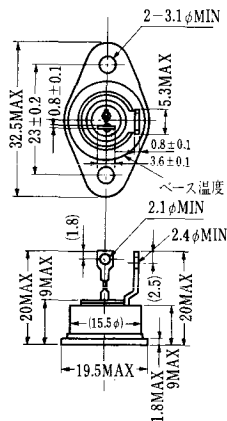


SAT-1

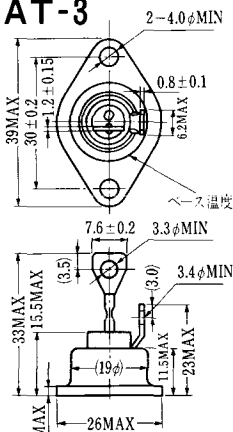


T1端子:ファストン250($T=6.35$, $t=0.8$, $\phi=1.65$)
T2端子:ファストン250($T=6.35$, $t=0.8$, $\phi=1.65$)
G端子:ファストン187($T=4.75$, $t=0.5$, $\phi=1.3$)

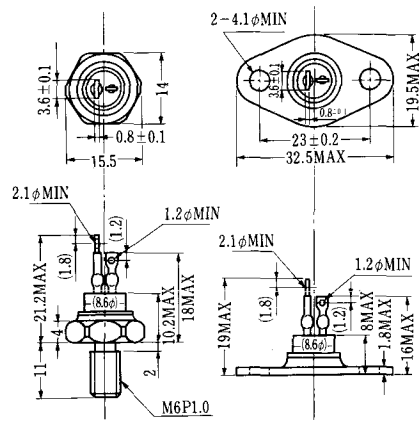
SAT-2



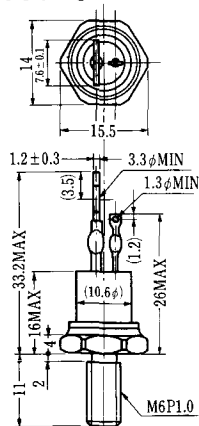
SAT-3



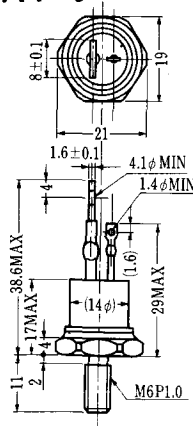
SAT-4



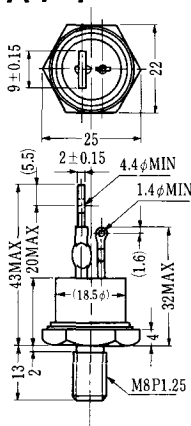
SAT-5



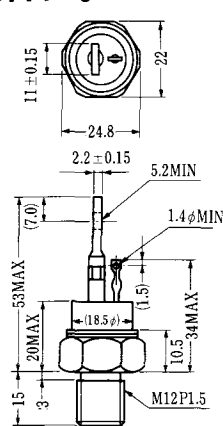
SAT-6



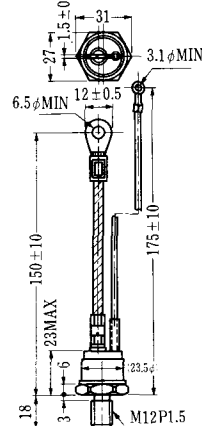
SAT-7



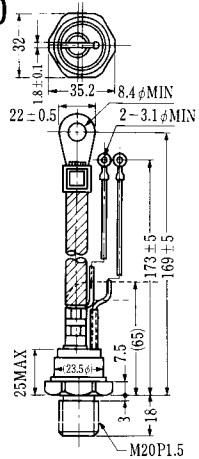
SAT-8



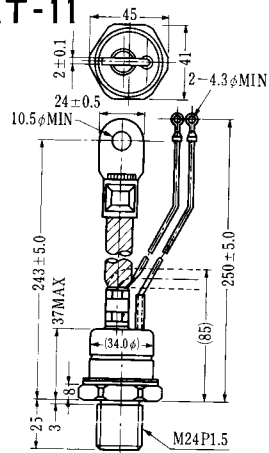
SAT-9.



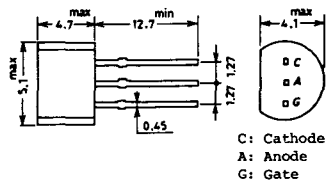
SAT-10



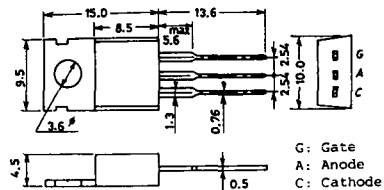
SAT-11



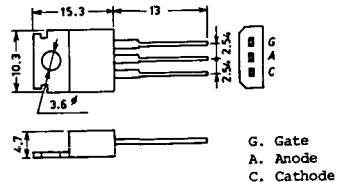
SY-1(1096A)



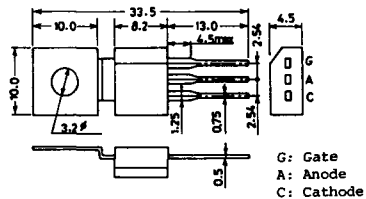
SY-2(1151)



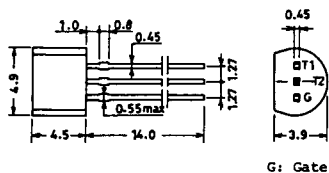
SY-3(1104)



SY-4(1150)

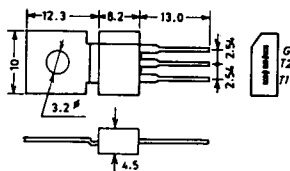


1097A

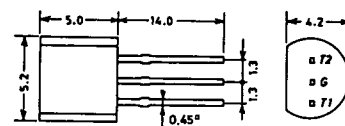


G: Gate

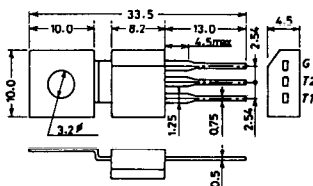
1102



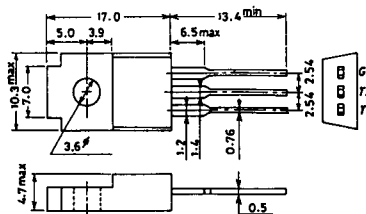
1141



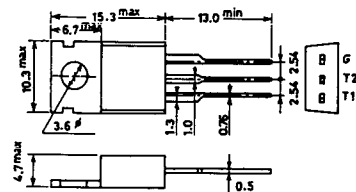
1142



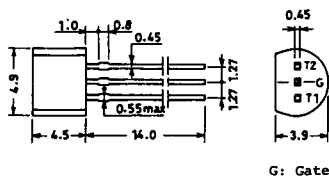
1144



1155

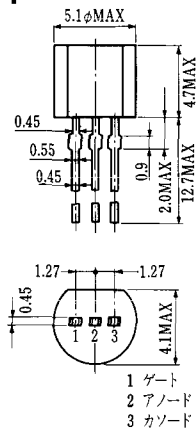


1192A

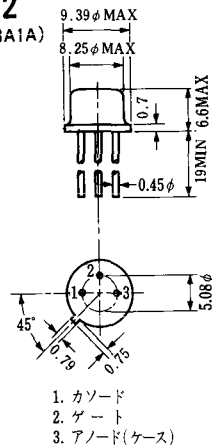


G: Gate

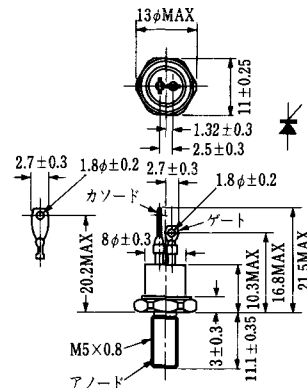
T-1 (13-5A1A)



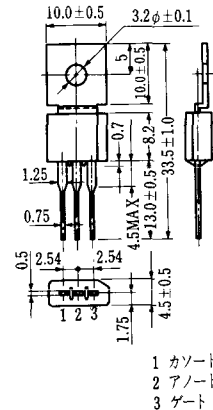
T-2 (13-8A1A)



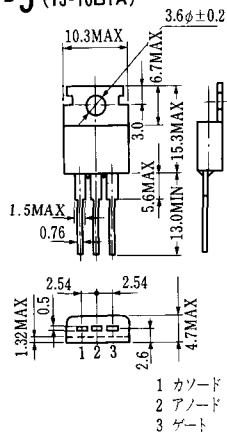
T-3 (13-8C1A)



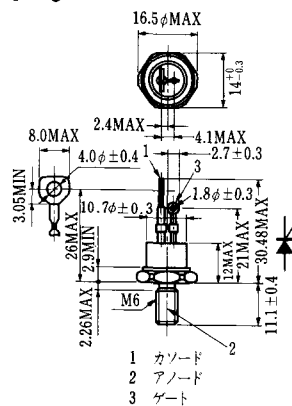
T-4 (13-10A1A)



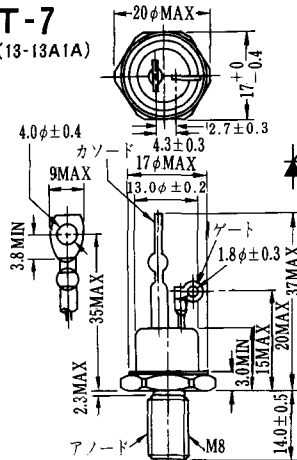
T-5 (13-10B1A)



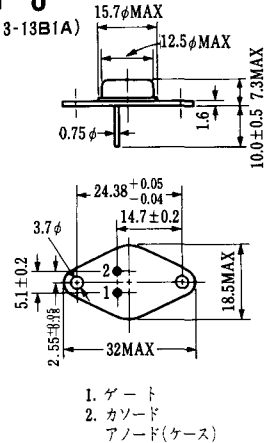
T-6 (13-11D1A)



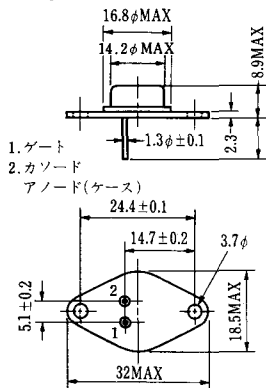
T-7 (13-13A1A)



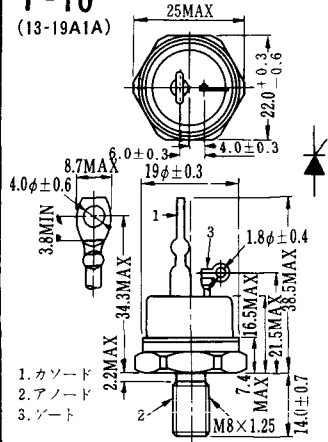
T-8 (13-13B1A)



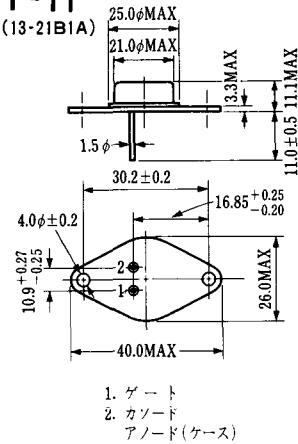
T-9 (13-14A1A)



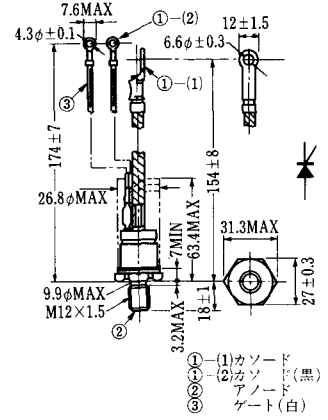
T-10 (13-19A1A)



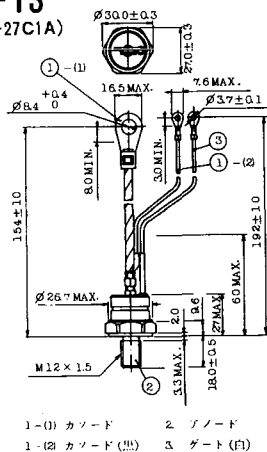
T-11 (13-21B1A)



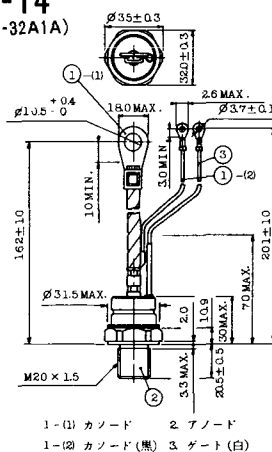
T-12 (13-27B1B)



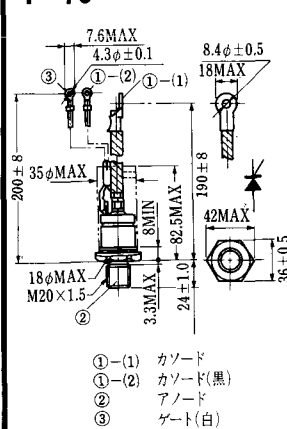
T-13 (13-27C1A)



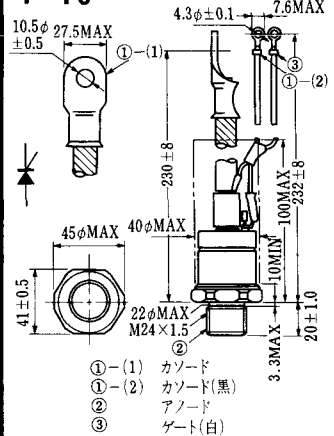
T-14 (13-32A1A)



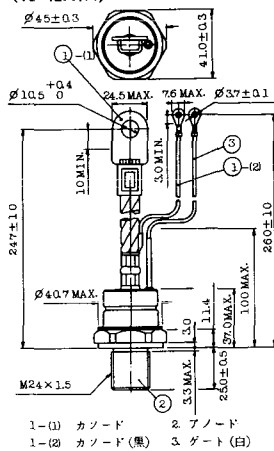
T-15 (13-35C1B)



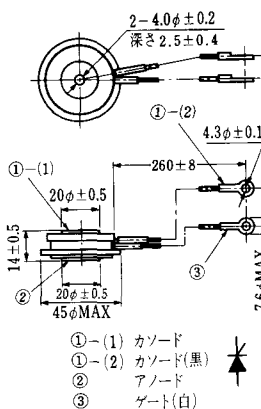
T-16 (13-40B1A)



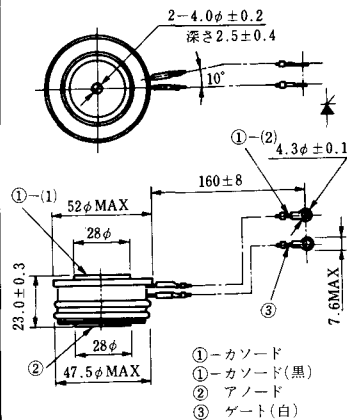
T-17 (13-42A1A)



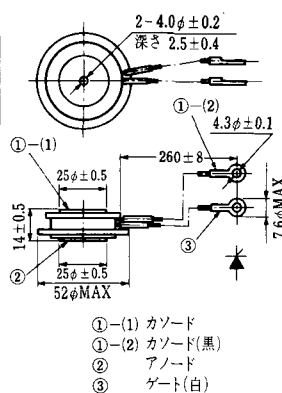
T-18 (13-45D1A)



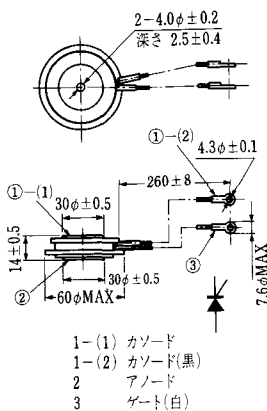
T-19 (13-52B1A)



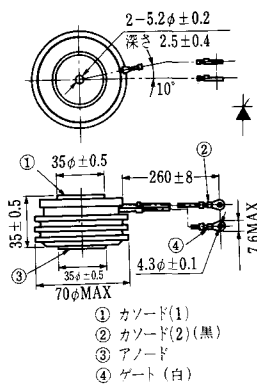
T-20 (13-52C1A)



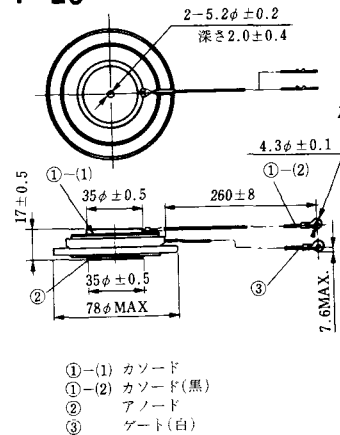
T-21 (13-60A1A)



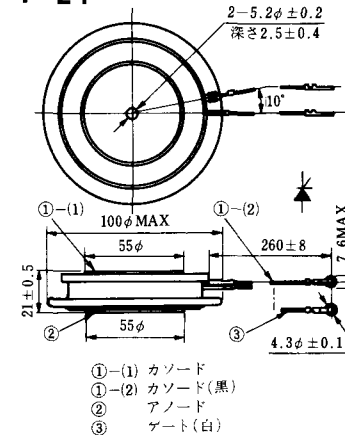
T-22 (13-70C1A)



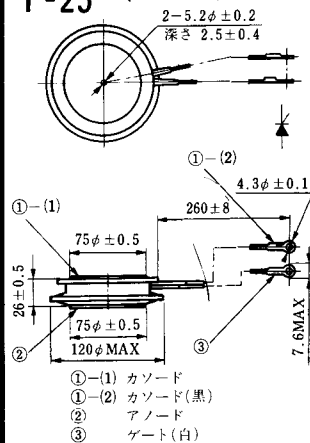
T-23 (13-78A1A)



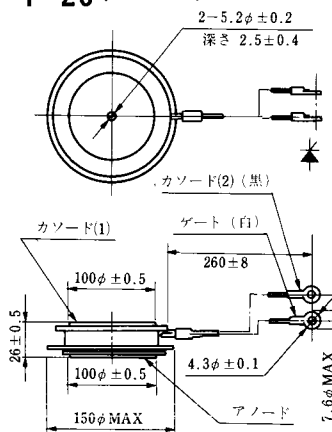
T-24 (13-100C1A)



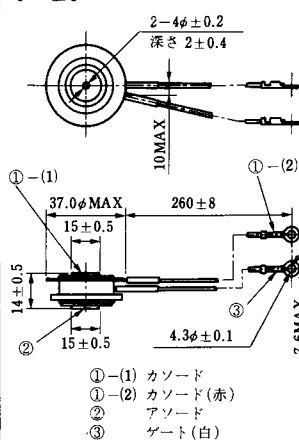
T-25 (13-120A2A)



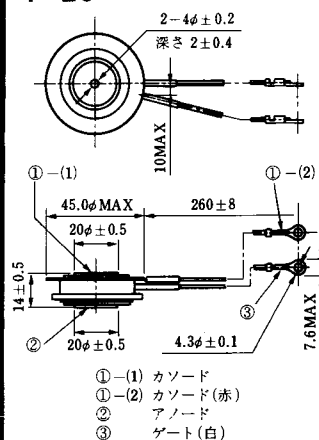
T-26 (13-150A1A)



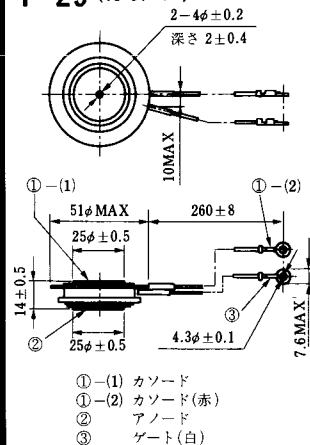
T-27 (13-37A1A)



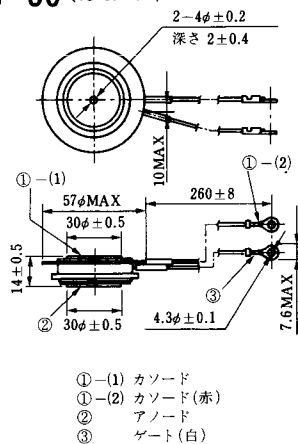
T-28 (13-45E1A)



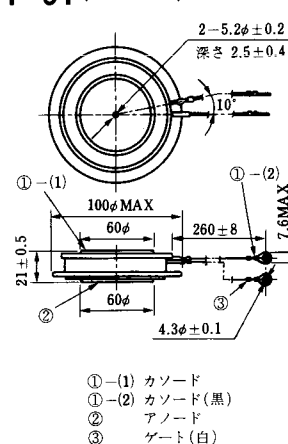
T-29 (13-51A1A)



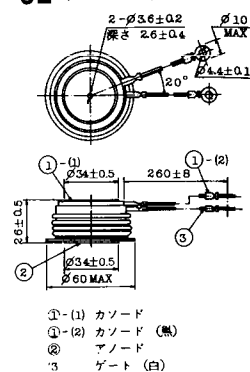
T-30 (13-57A1A)



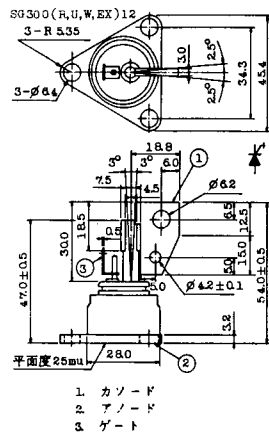
T-31 (13-100E1A)



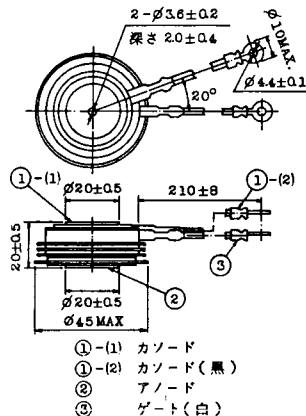
T-32 (13-60E3A)



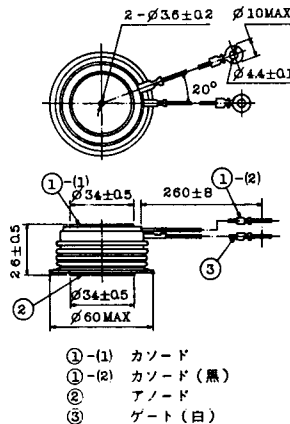
T-41 (13-28A2A)



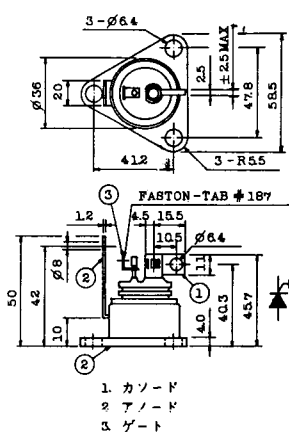
T-42 (13-45F1A)



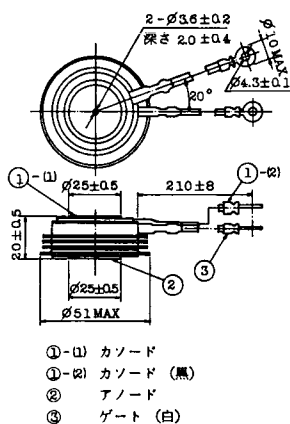
T-43 (13-60E2A)



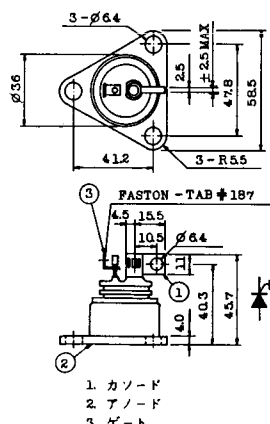
T-44 (13-36A1A)



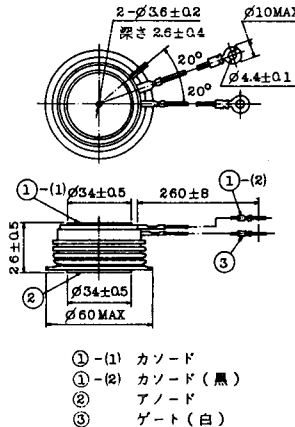
T-45 (13-51B1A)



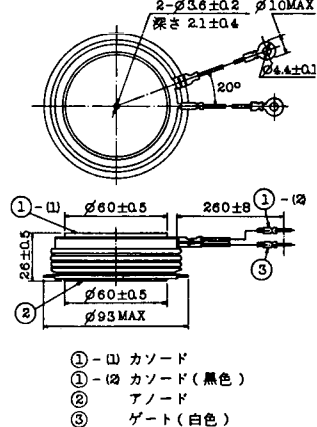
T-46 (13-36B1A)



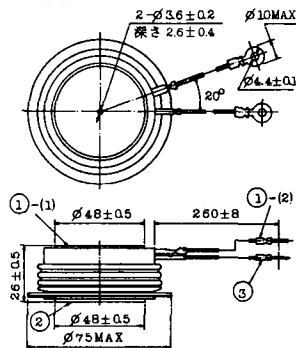
T-47 (13-60E1A)



T-48 (13-93C1A)

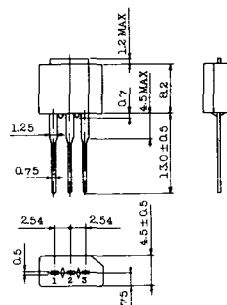


T-49 (13-75A1A)



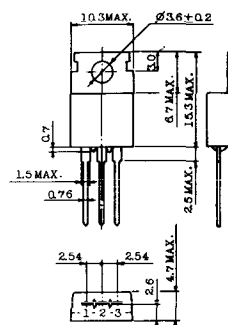
- 1-(1) カソード
1-(2) カソード (黒)
2 アノード
3 ゲート (白)

T-50 (13-10A3A)



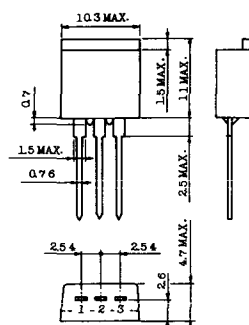
- 1 カソード
2 アノード
3 ゲート

T-51 (13-10D1A)



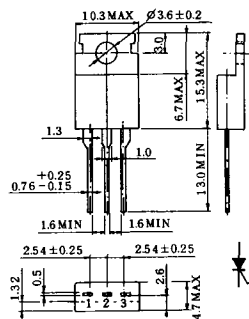
- 1 カソード
2 アノード
3 ゲート

T-52 (13-10D2A)



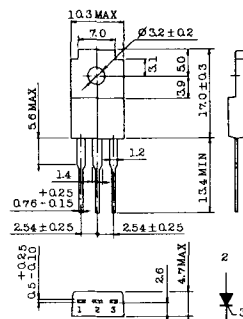
- 1 カソード
2 アノード
3 ゲート

T-53 (13-10E1B)



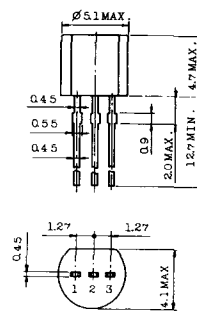
- 1 カソード
2 アノード
3 ゲート

T-54 (13-10F1B)



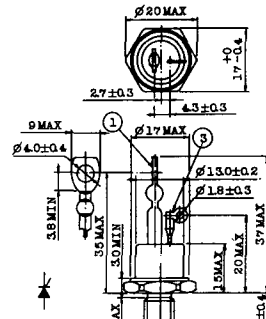
- 1 カソード
2 アノード
3 ゲート

T-55 (13-5A1D)



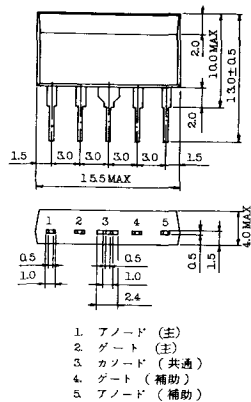
- 1 カソード
2 ゲート
3 アノード

T-56 (13-13C1A)

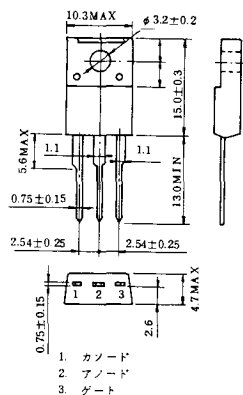


- 1 カソード
2 アノード
3 ゲート

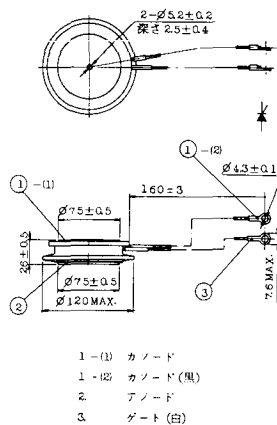
T-57 (12-16C1A)



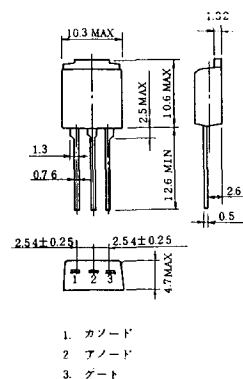
T-58 (13-10H1B)



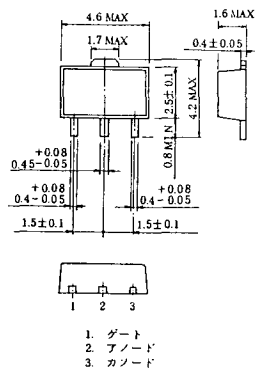
T-59 (13-120A1A)



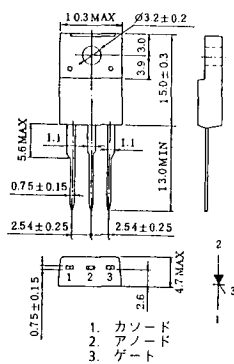
T-60



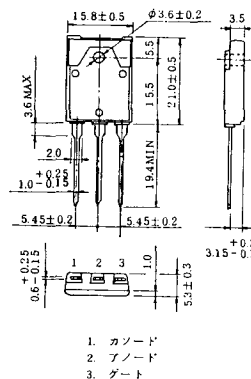
T-61 (13-5B1A)



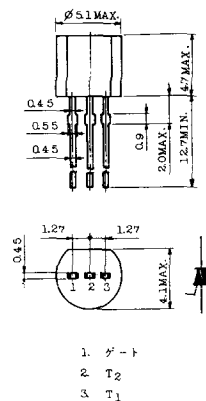
T-62 (13-10H1A)



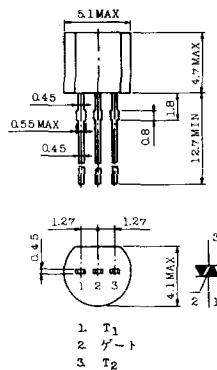
T-63 (13-16A1B)



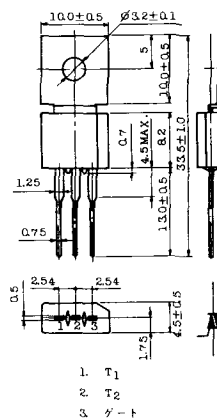
TT-1



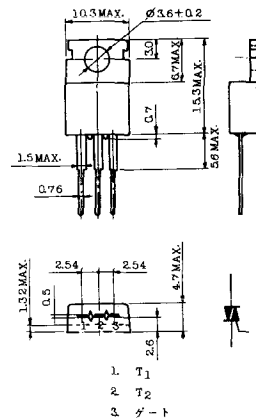
TT-2



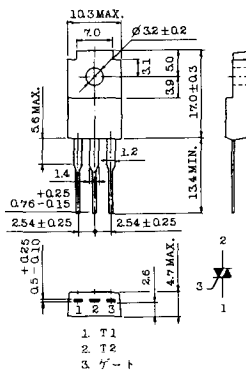
TT-3



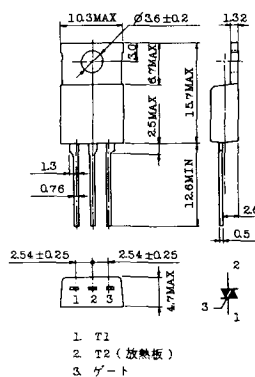
TT-4



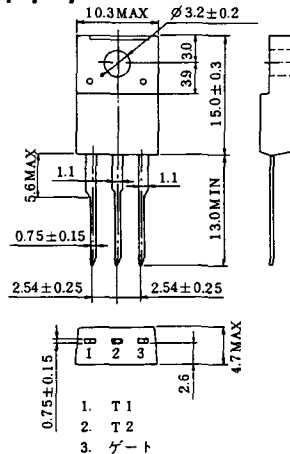
TT-5



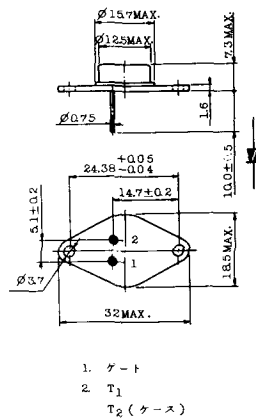
TT-6



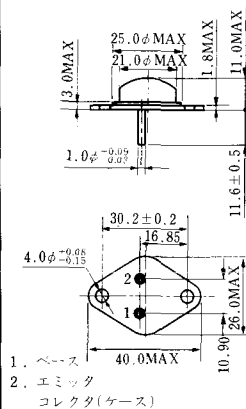
TT-7



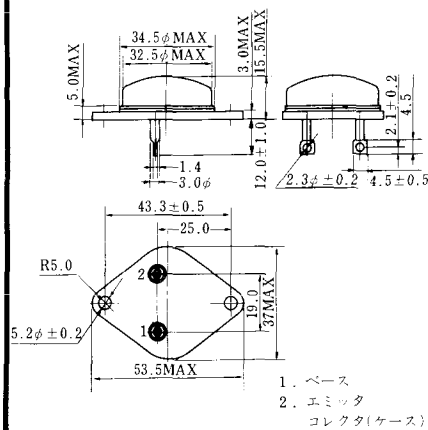
TT-8



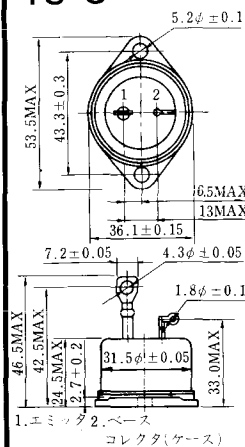
TS-1



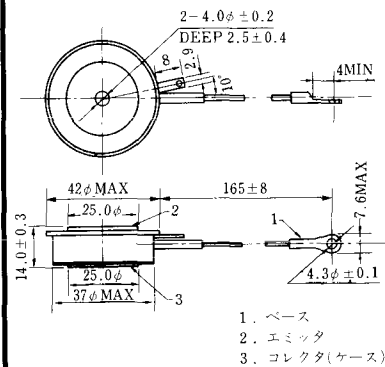
TS-2



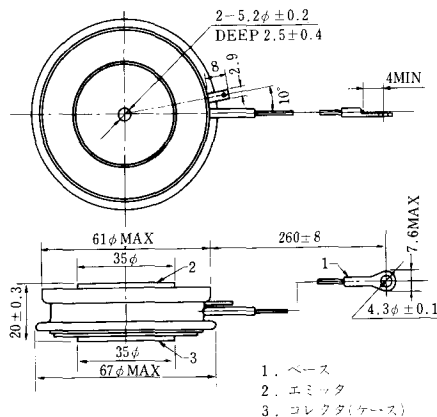
TS-3



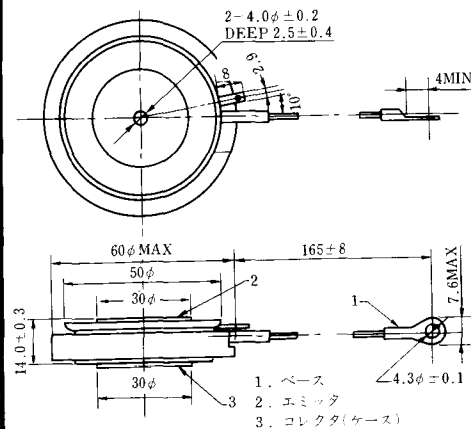
TS-4



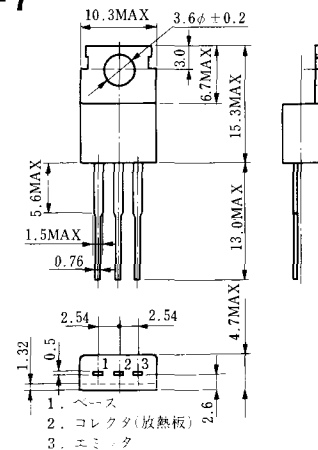
TS-5



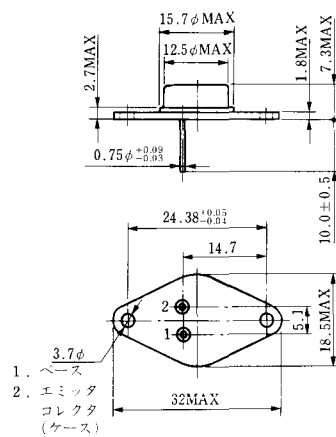
TS-6



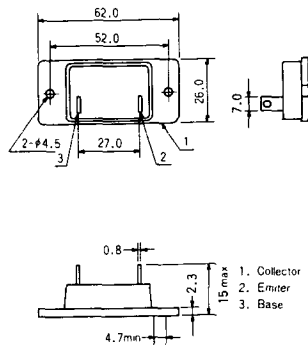
TS-7



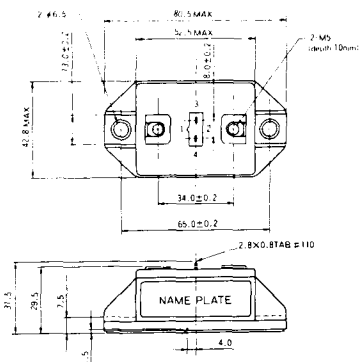
TS-8



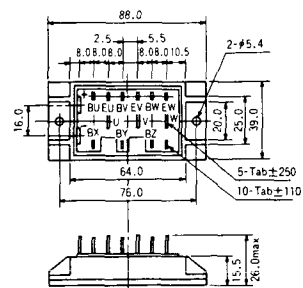
S-62A1A



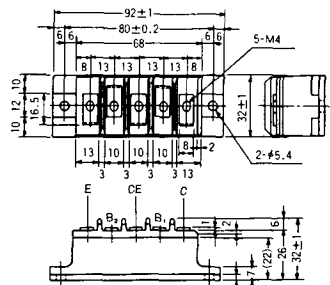
S-80A1A



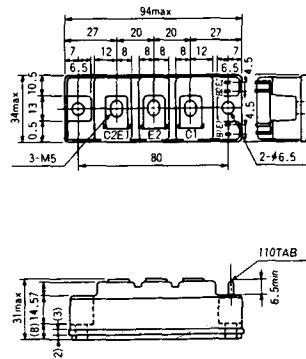
S-88D1A



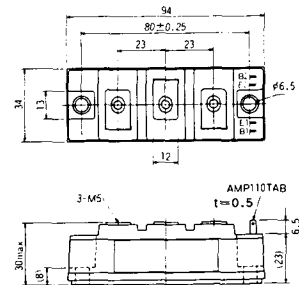
S-92B1A



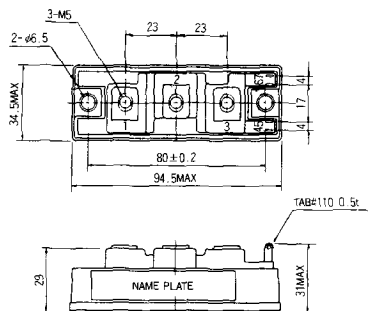
S-94B1A



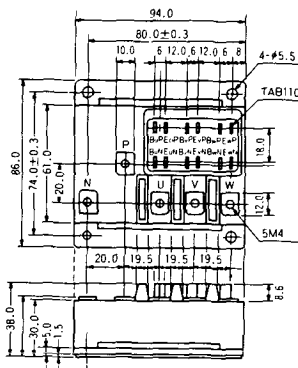
S-94B1B



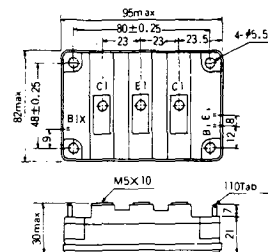
S-94B2A



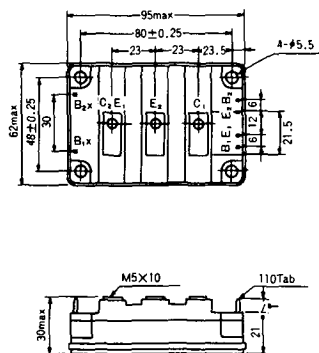
S-94D1A



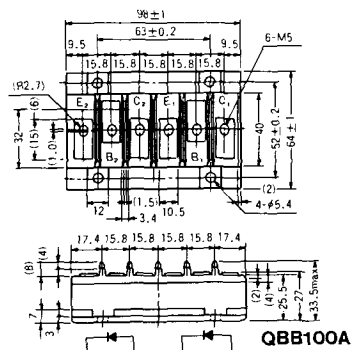
S-95A1A



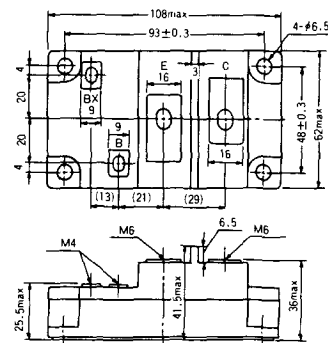
S-95B1A



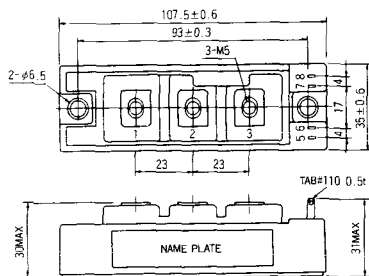
S-98B1B



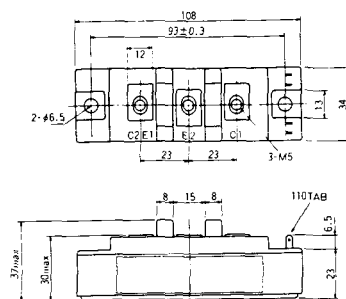
S-108A2A



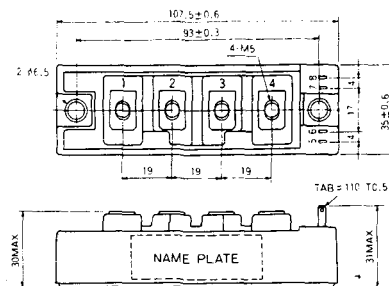
S-108B1A



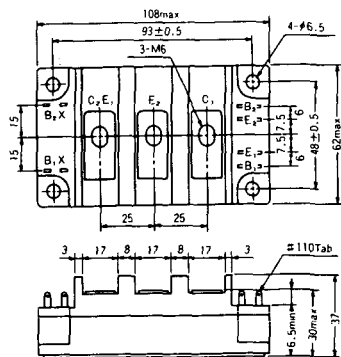
S-108B1B



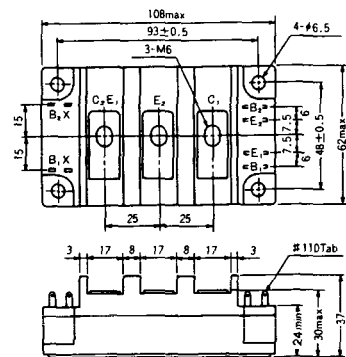
S-108B1C



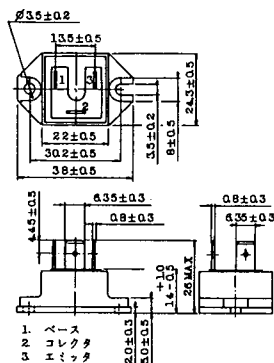
S-108B2A



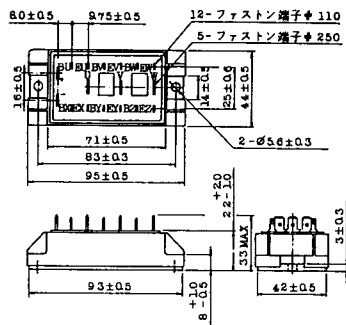
S-108B2B



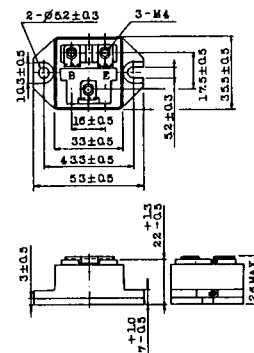
2-22B1A



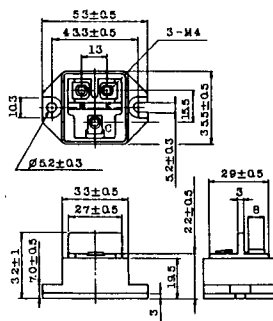
2-27A4A



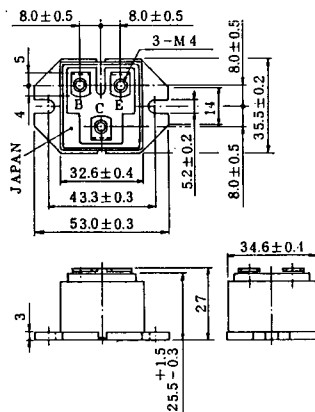
2-33C1A



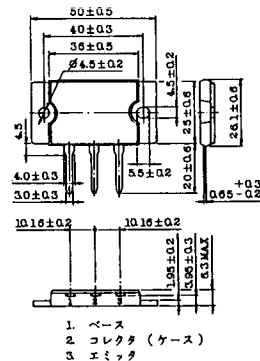
2-33D1A



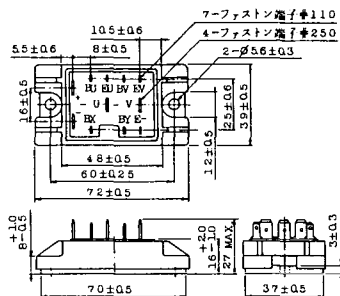
2-33F1A



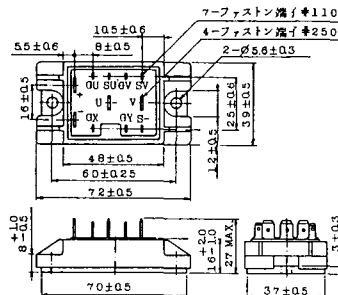
2-37A1A



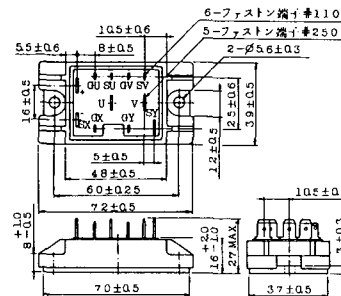
2-48A3A



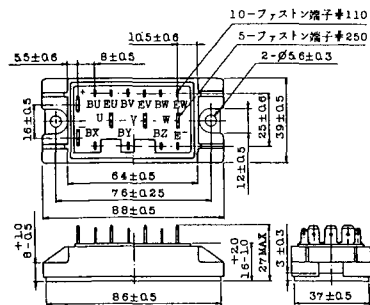
2-48A3B



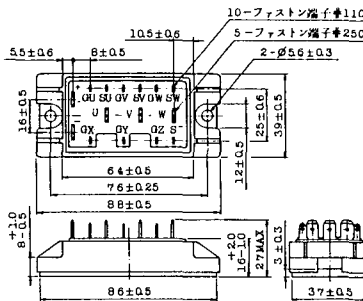
2-48A4A



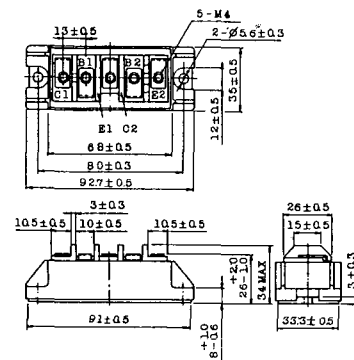
2-64A2A



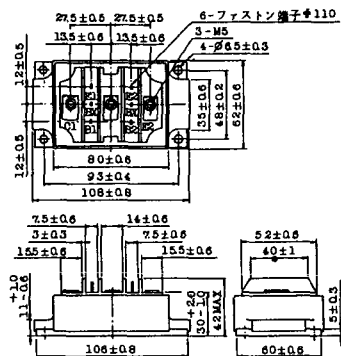
2-64A2B



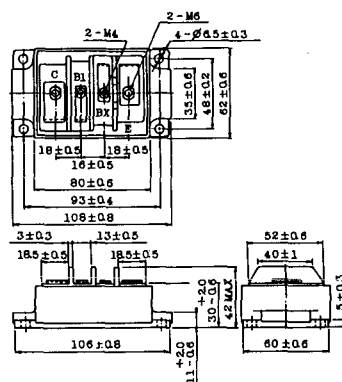
2-68A2A



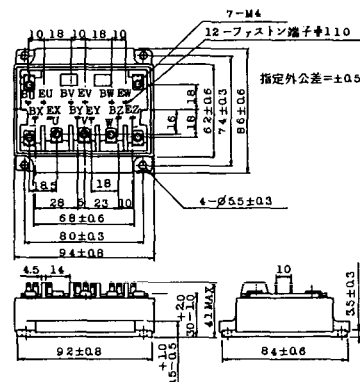
2-80C1A



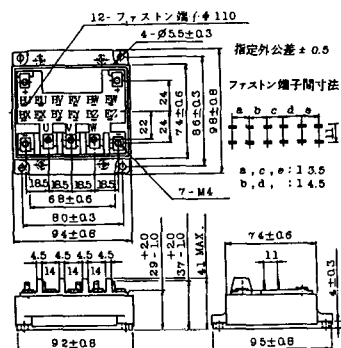
2-80D2A



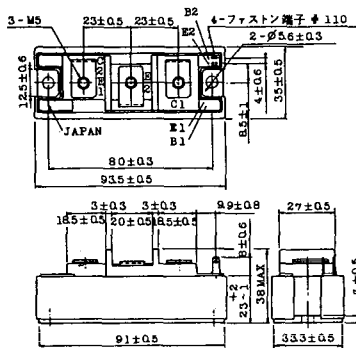
2-94A2A



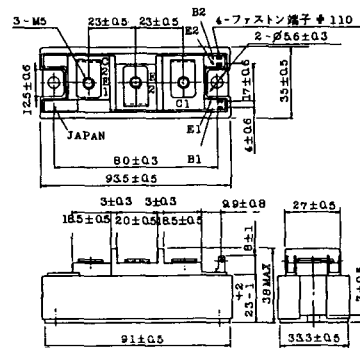
2-94B1A



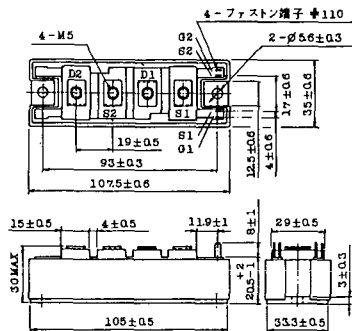
2-94C2A



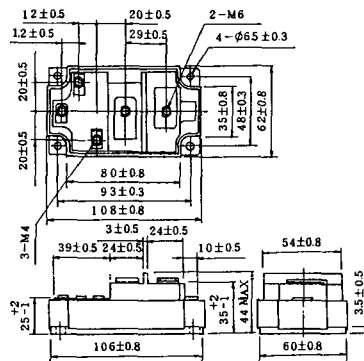
2-94C3A



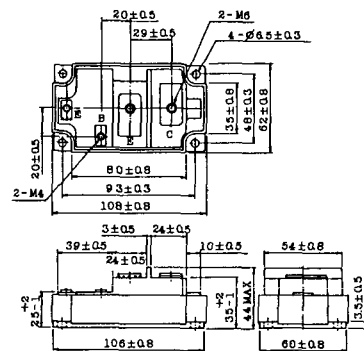
2-108B1A



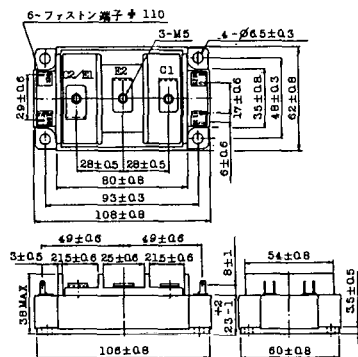
2-109A3A



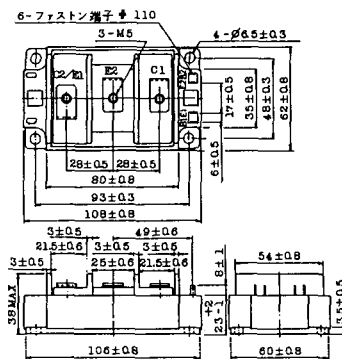
2-109A4A



2-109B3A

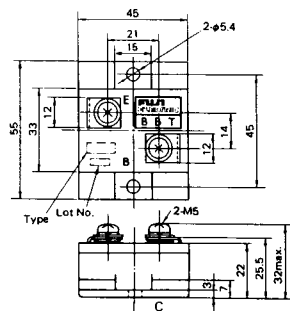


2-109B4A



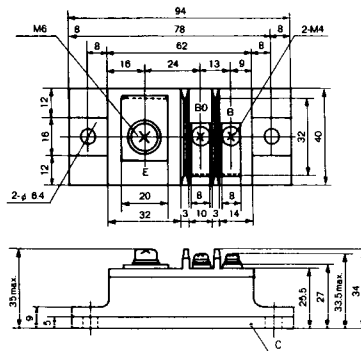
BBT-II

BBTII
1D200A-020



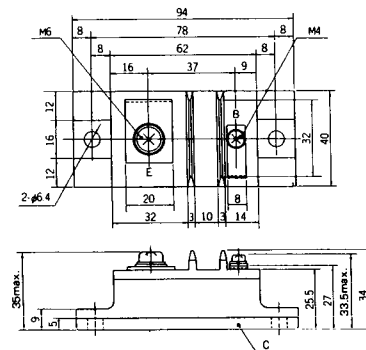
BBT-III

BBTIII
ETN31-055
ETN36-030
ETN36-030
ETN35-030



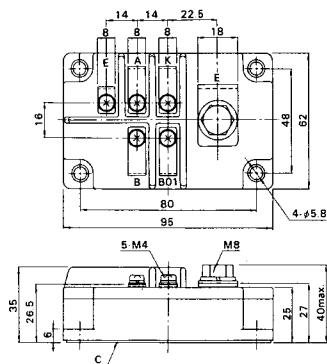
BBT-III

BBTIII
ETN01-055
ET1257

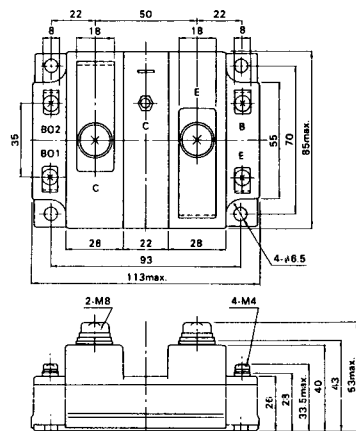


BBT-IV

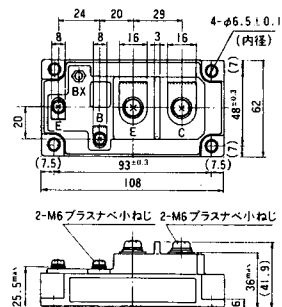
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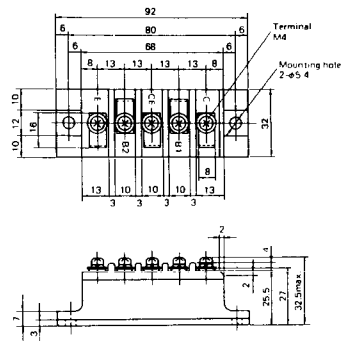
M-107



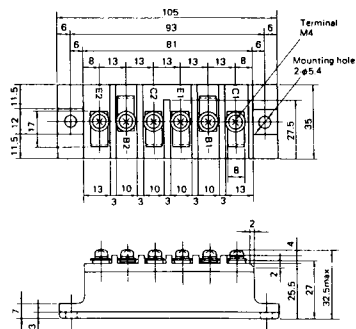
M-116



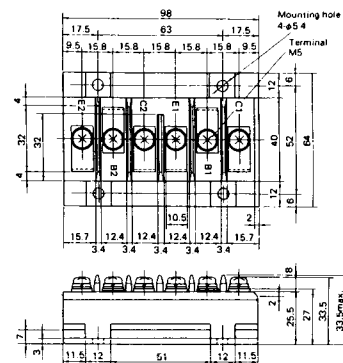
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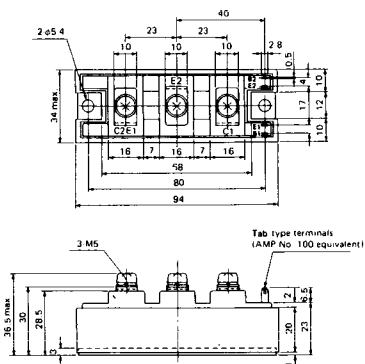
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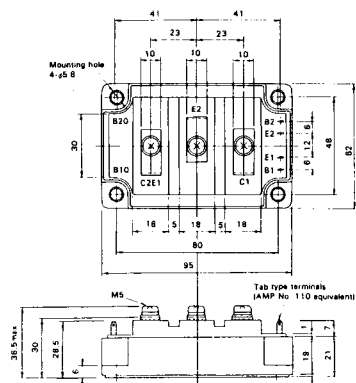
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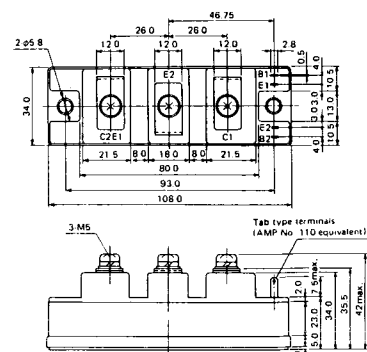
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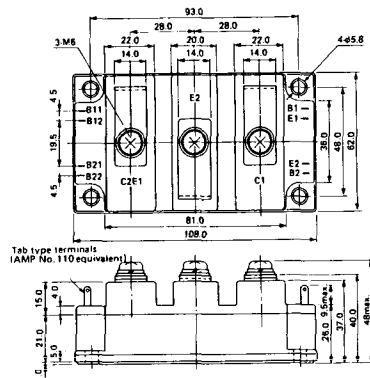
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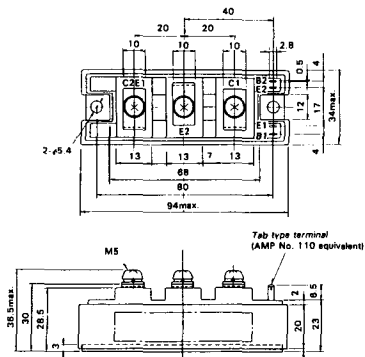
M-206



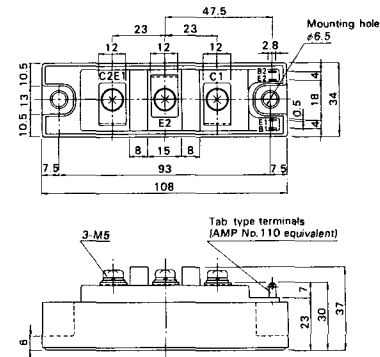
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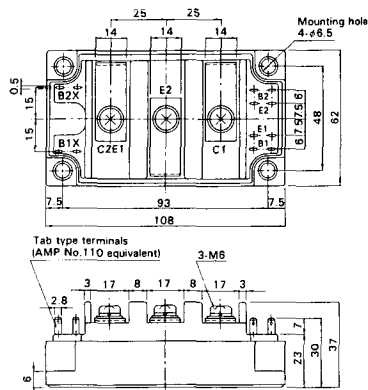
M-208



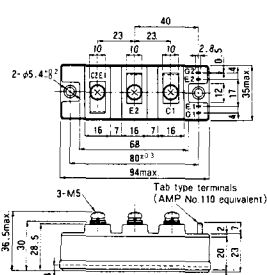
M-209



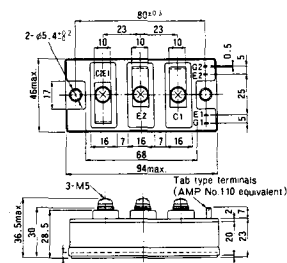
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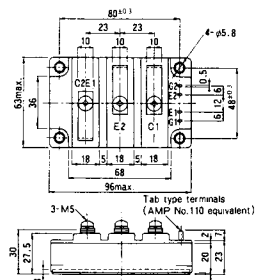
M-211



M-212

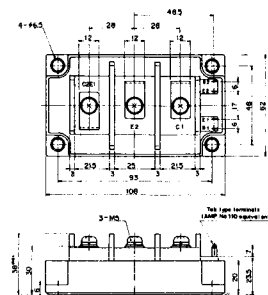


M-213

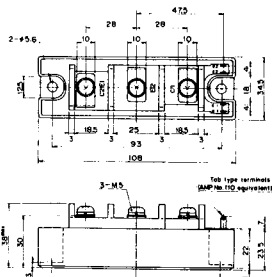


M-214

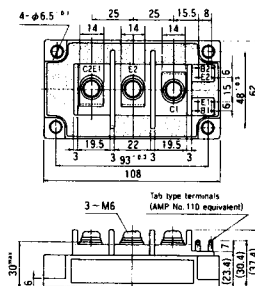
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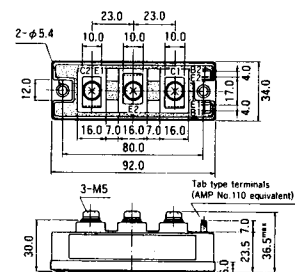
M-216



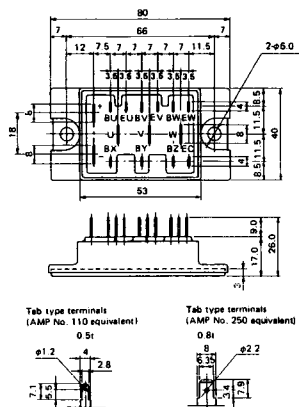
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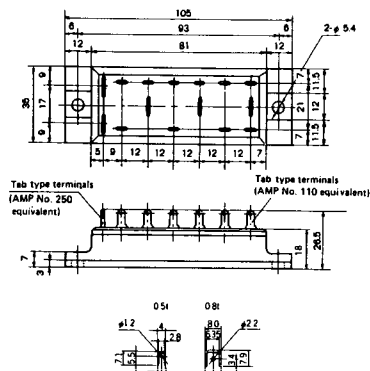
M-218



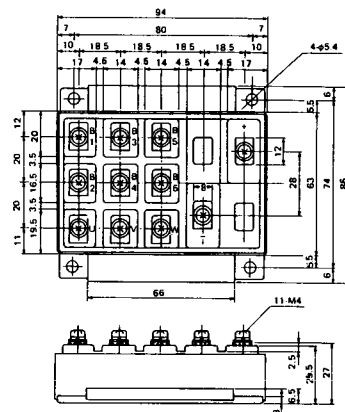
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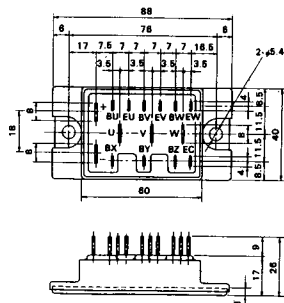
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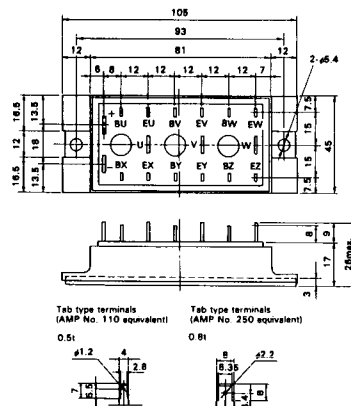
M-603



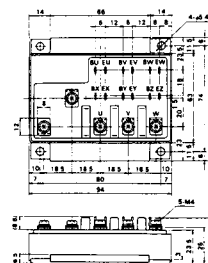
M-604



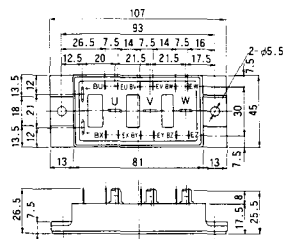
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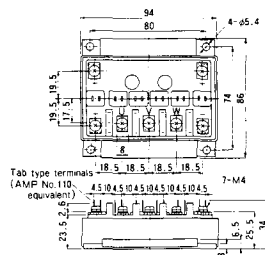
M-606



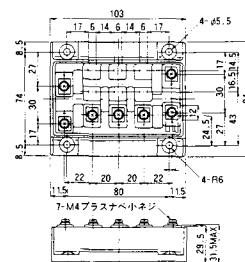
M-607



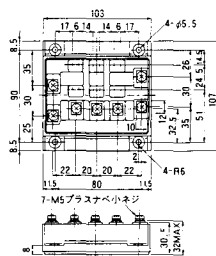
M-608



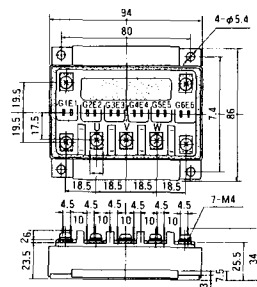
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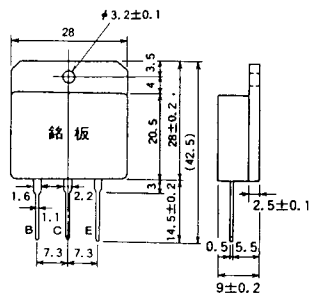
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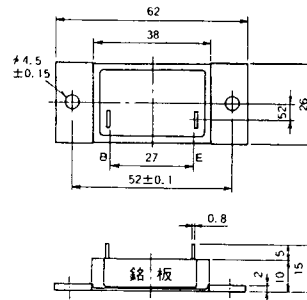
M-616



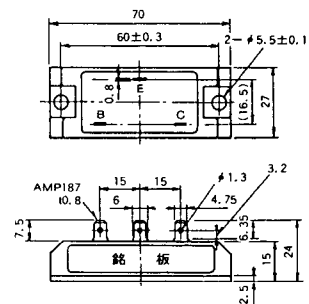
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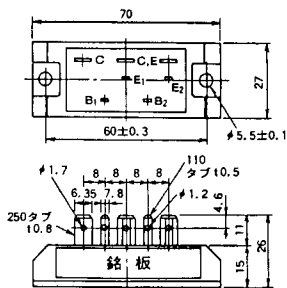
M-2A1A



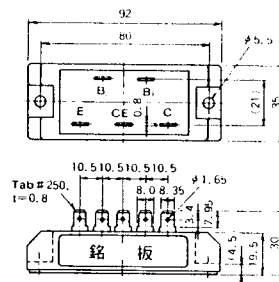
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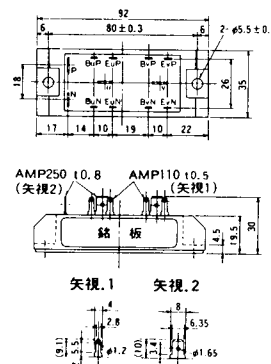
M-2B2A



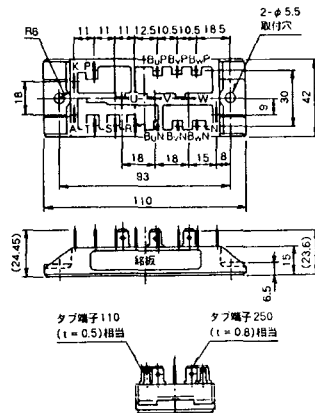
M-2C2A



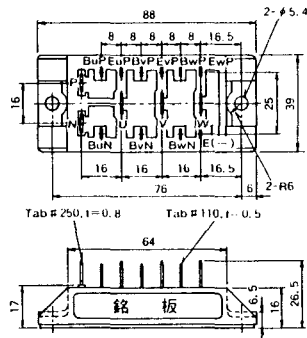
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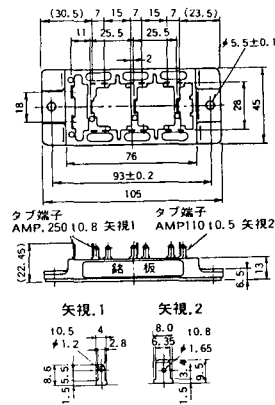
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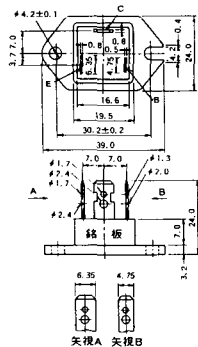
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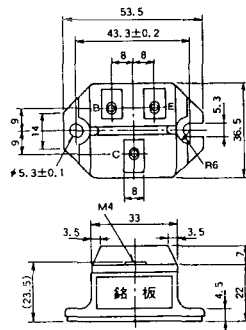
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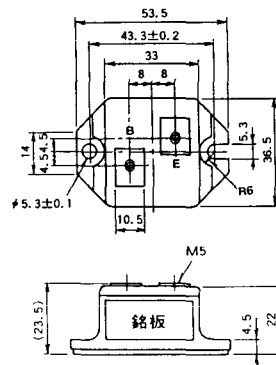
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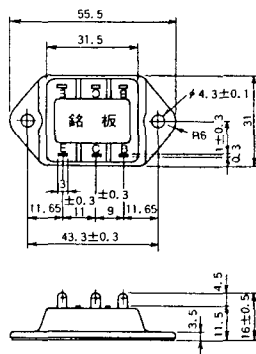
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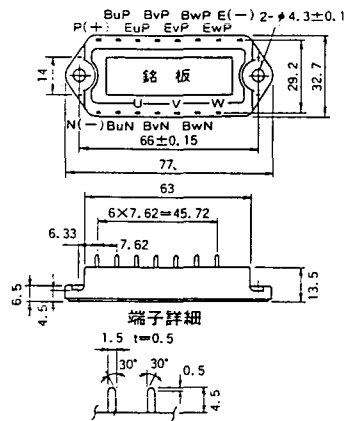
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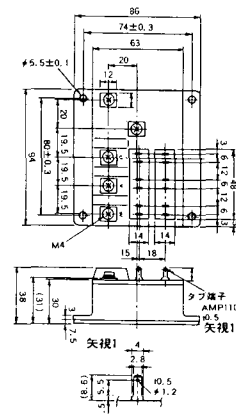
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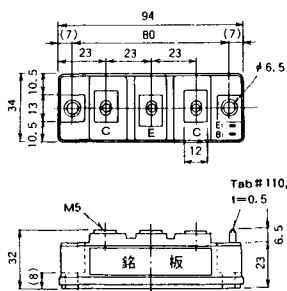
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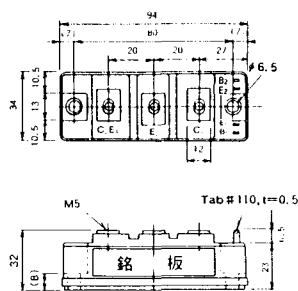
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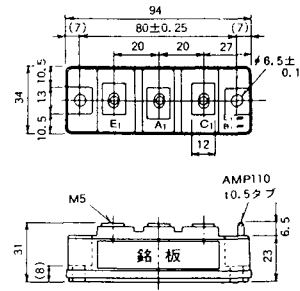
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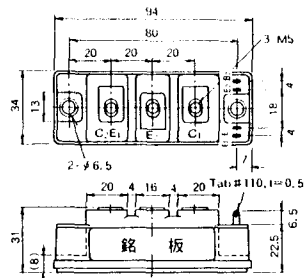
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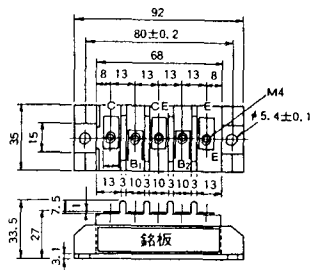
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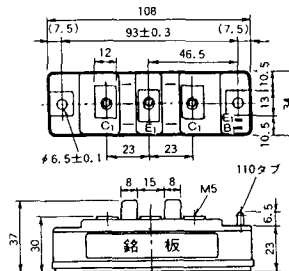
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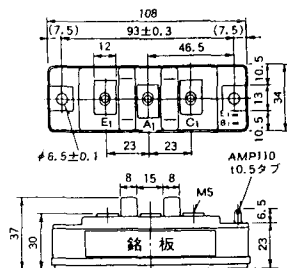
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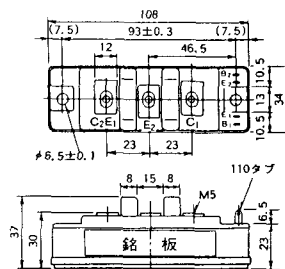
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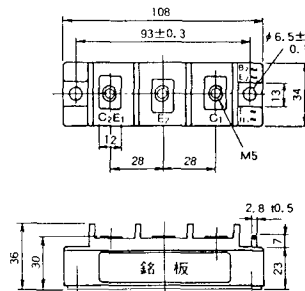
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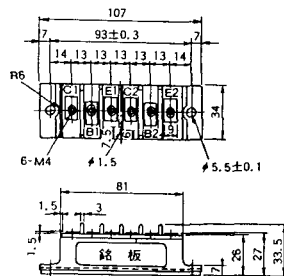
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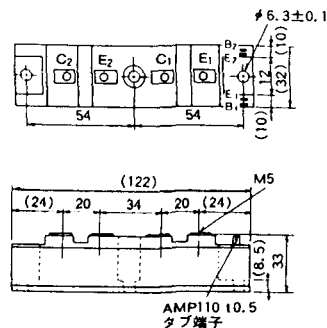
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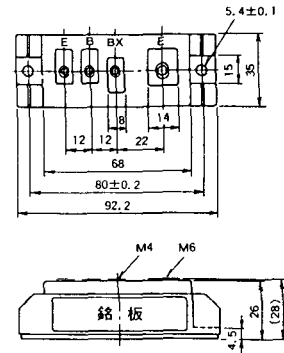
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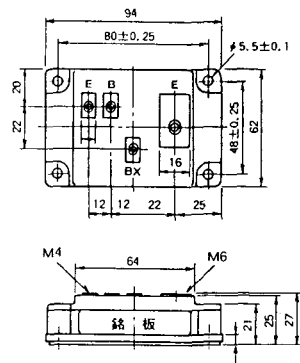
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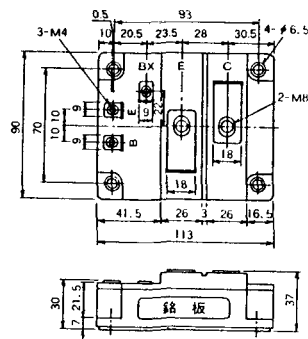
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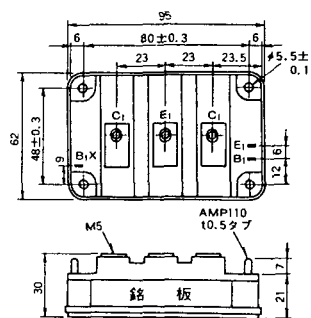
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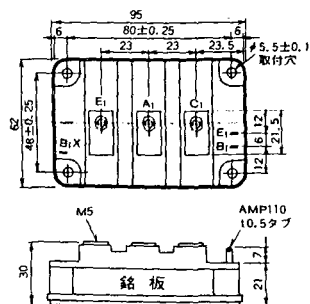
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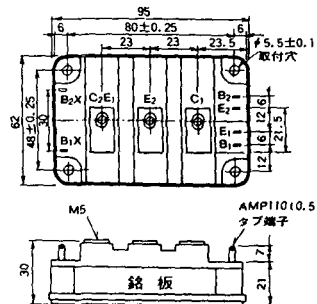
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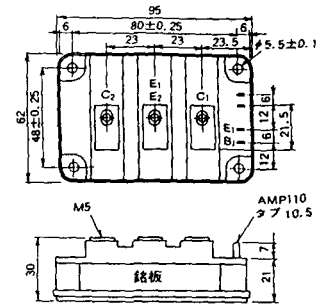
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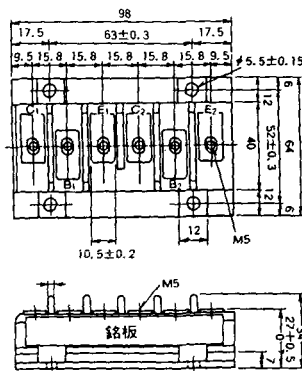
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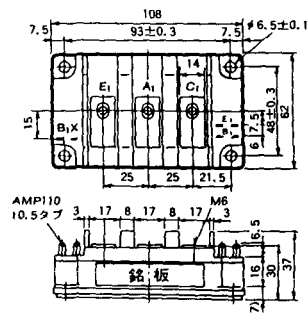
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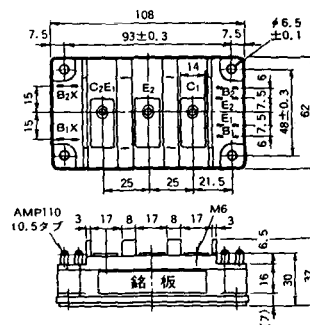
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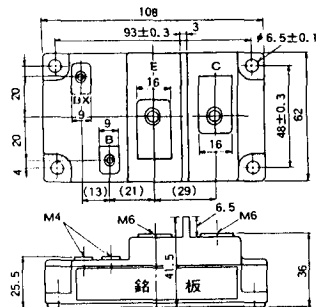
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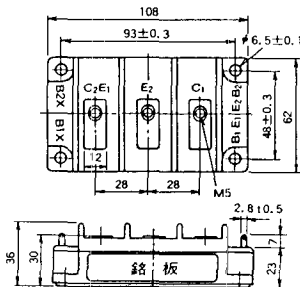
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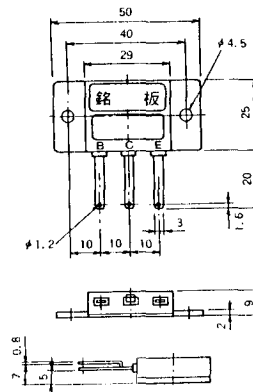
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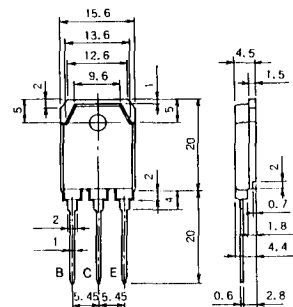
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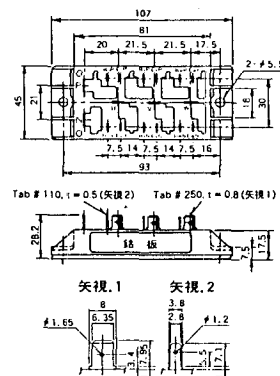
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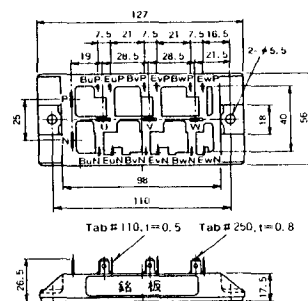
M-1A1C



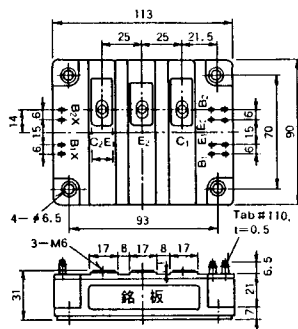
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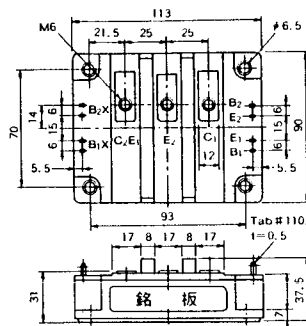
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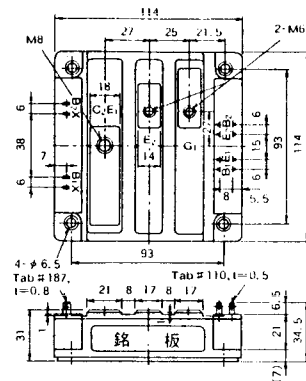
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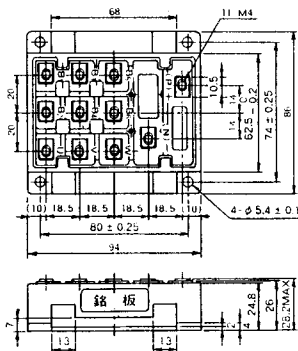
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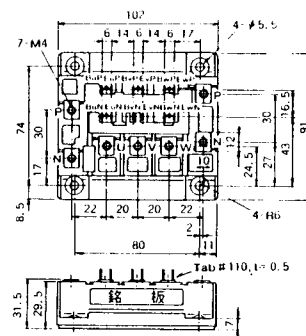
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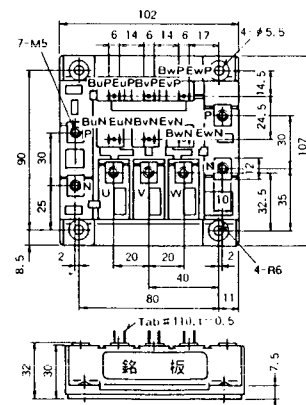
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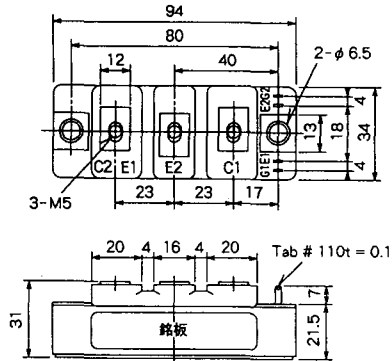
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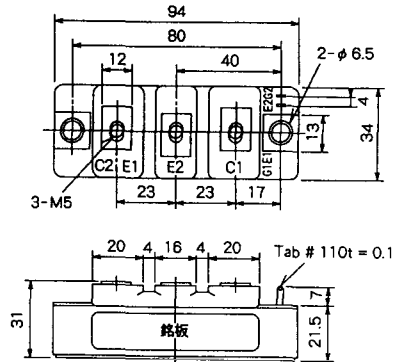
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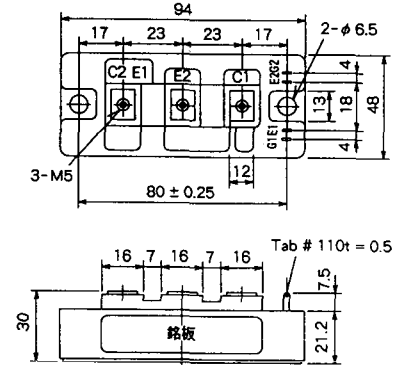
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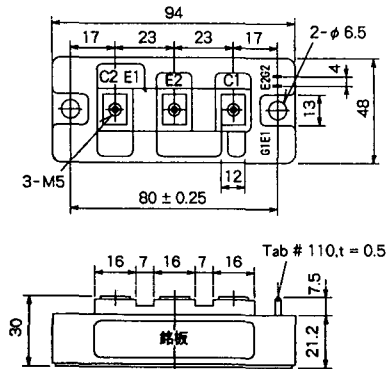
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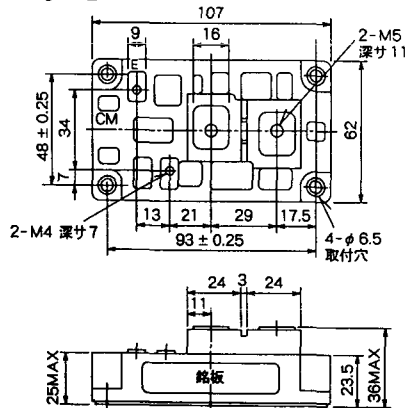
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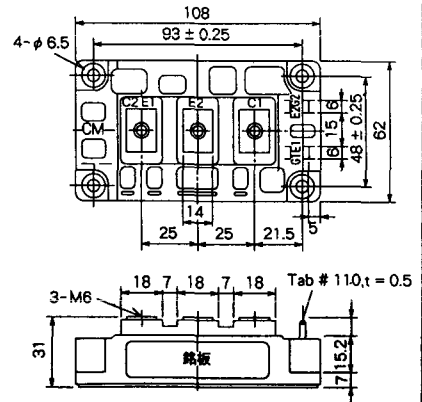
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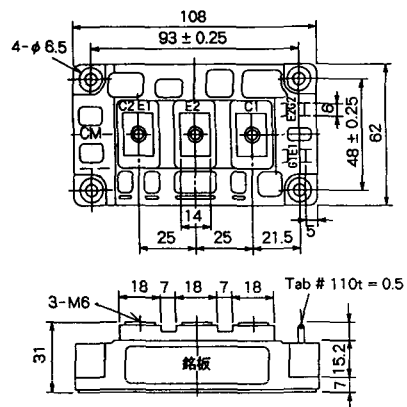
M-9B1C



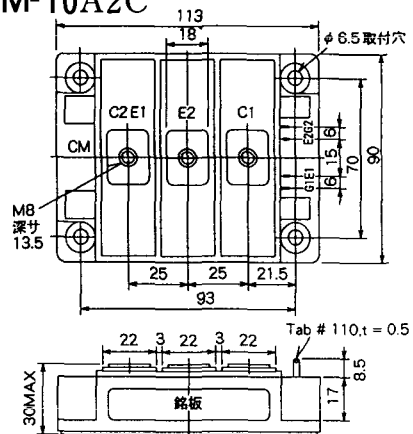
M-9D2A



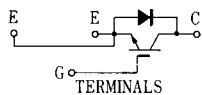
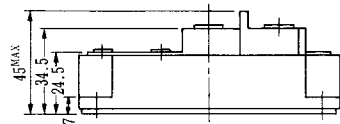
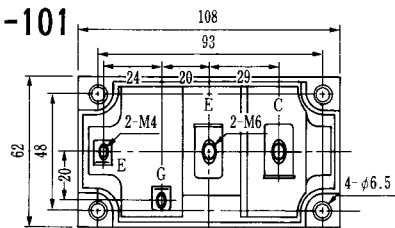
M-9D2B



M-10A2C



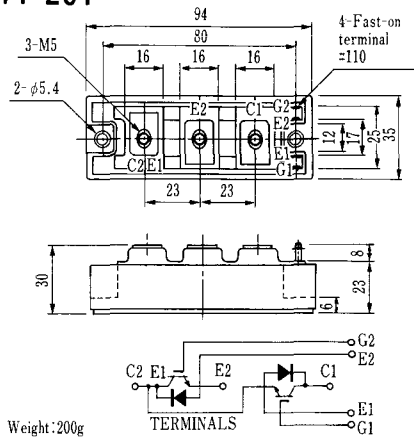
H-101



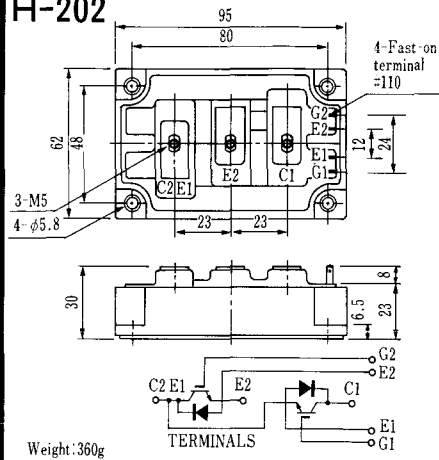
Weight :480g

TERMINALS

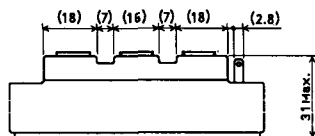
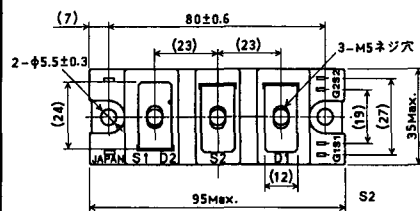
H-201



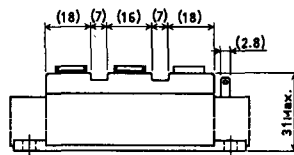
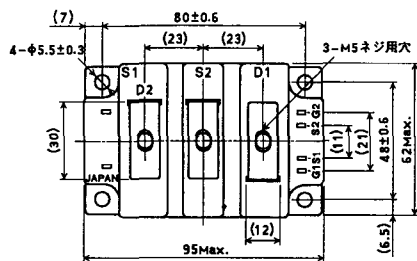
H-202



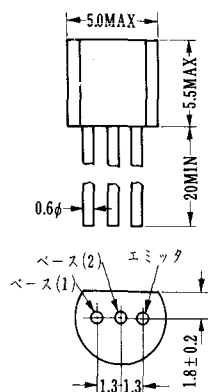
LF-J



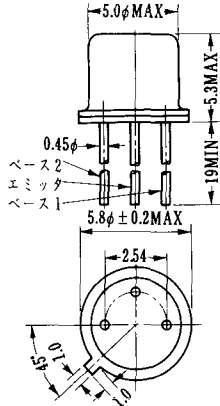
LF-K



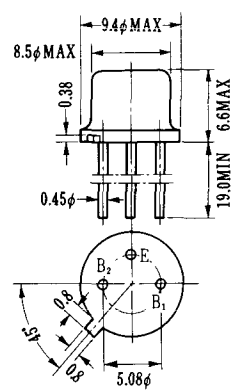
U-1



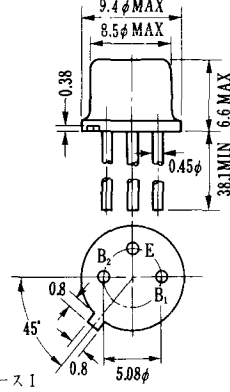
U-2



U-3



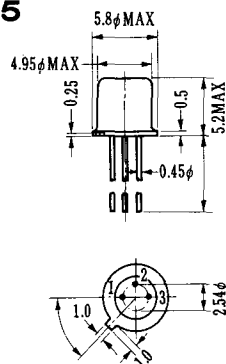
U-4



電極接続

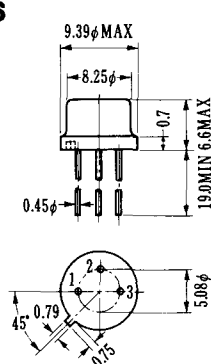
B₁: ベース1
B₂: ベース2
E: エミッタ

U-5



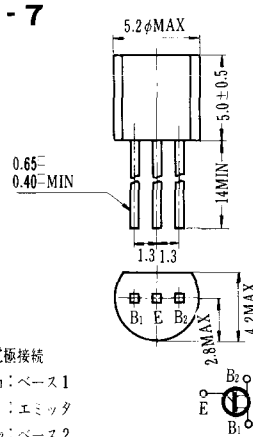
1. BASE1
2. EMITTER
3. BASE2 (CASE)

U-6



1. BASE(2)
2. EMITTER
3. BASE(1)

U-7



電極接続

B₁: ベース1
E: エミッタ
B₂: ベース2

U-8

