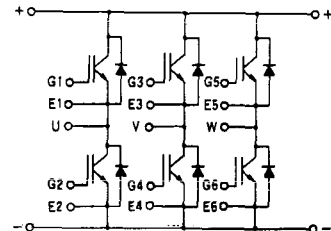
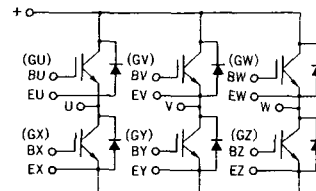
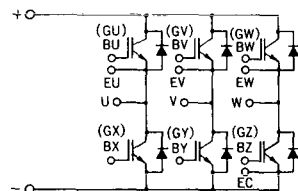


トランジスタ・モジュール [シリコンNチャネル・IGBT, 三相ブリッジ]

- ・ 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 氣 的 特 性 (T _c =25℃)														
	V _{CES}	V _{GES}	I _C	I _{CP}	I _F	I _{FM}	P _C	T _j	T _{all}	V _{iso}	I _{GES}	I _{GES}	I _{GES}	V _{CES}	V _{GES}	I _C	V _{GE(OFF)}	V _{CE}	I _C	V _{CE(SAT)}	V _{GE}	I _C	V _{CE}	I _C	
	(V)	(V)	(A)	(lms) (A)	(A)	(lms) (A)	(W) (注1)	(℃)	(℃)	(V) (注2)	(mA) (nA)	最大 (V)	最大 (mA)	最大 (V)	最小 (V)	最小 (mA)	最小 (V)	最小 (V)	最大 (V)	最大 (mA)	最大 (V)	最大 (V)	最大 (V)	最大 (V)	最大 (A)
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。

Ciss (f=1 MHz) スwitching時間 (μs)							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
							Rθ	Ic	Vce	Vf (V)	trr (ns)		If (V)	Vce (V)	di/dt (A/μs)	θJ-c (°C/W)						
											最大	IF				最大	最大	最大				
標準	Vce (V)	Vge (V)	tr	ton	tr	toff	(Ω)	(A)	(V)	最大	IF	最大	(A)	Vce (V)	di/dt (A/μs)	トランジスタ部 最大	ダイオード 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



FD-2



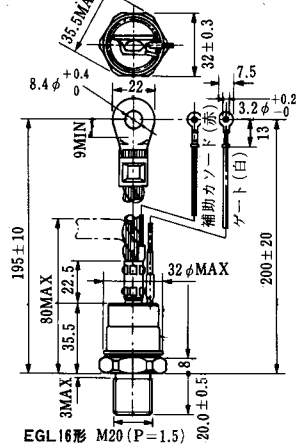
FD-3



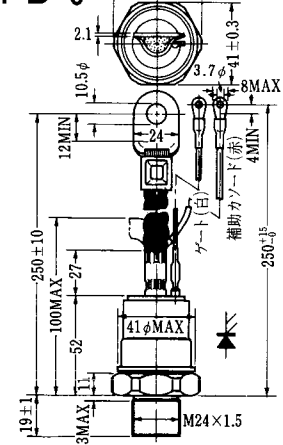
FD-4



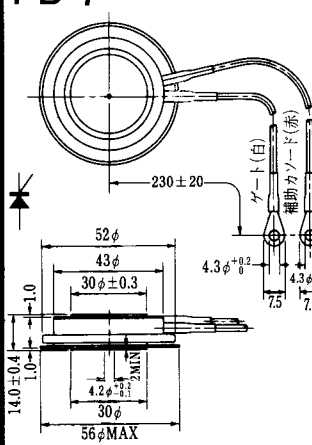
FD-5



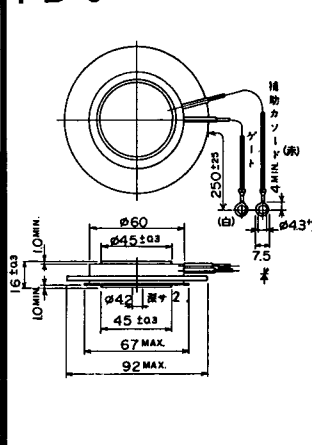
FD-6



FD-7



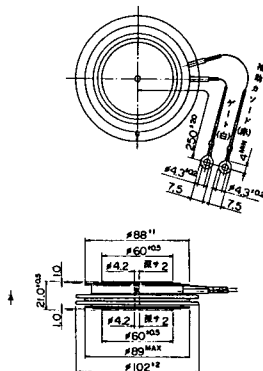
FD-8



FD-9

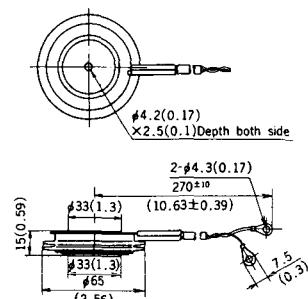
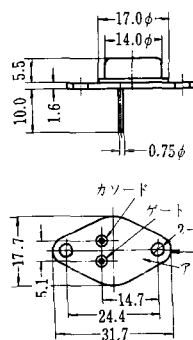
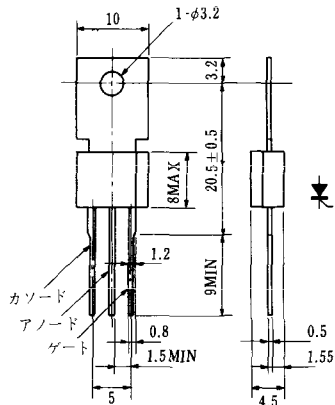


FD-10

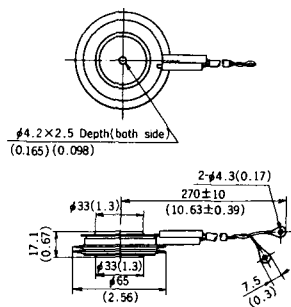


FD-11

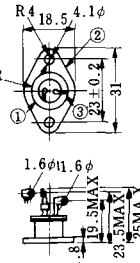
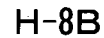
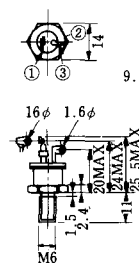
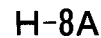
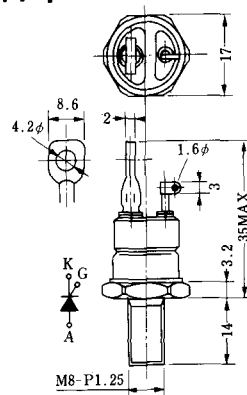
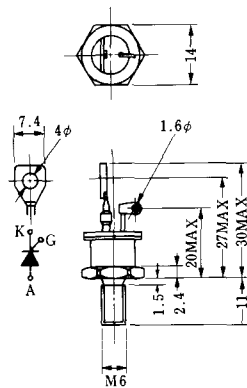
FD-12



Unit in mm(inch)

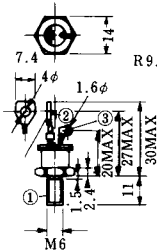


Unit in mm(inch)

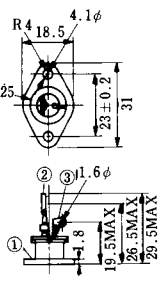


- ①アノード
②カソード
③ゲート

H-9A

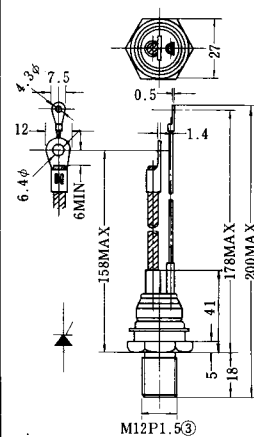


H-9B

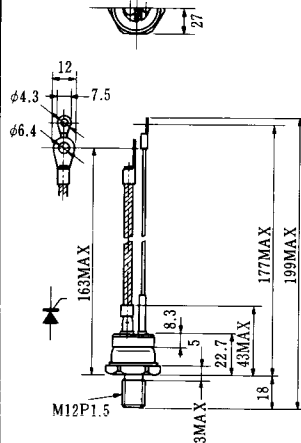


- ① アノード
- ② カソード
- ③ ゲート

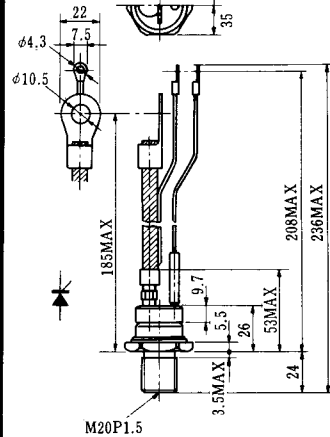
H-10



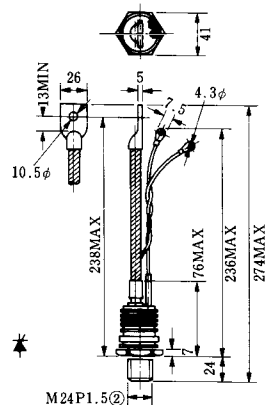
H-11



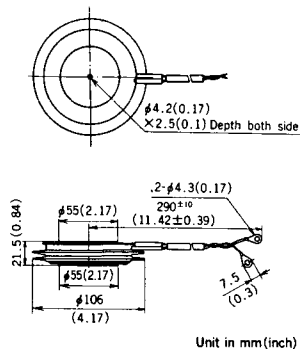
H-12



H-13

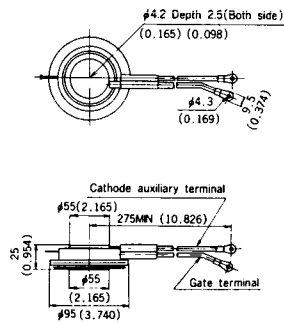


H-14



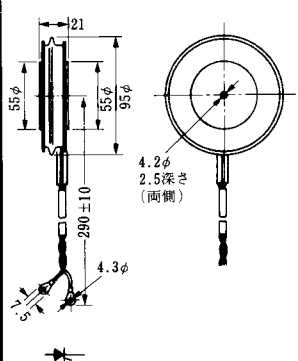
Unit in mm (inch)

H-15

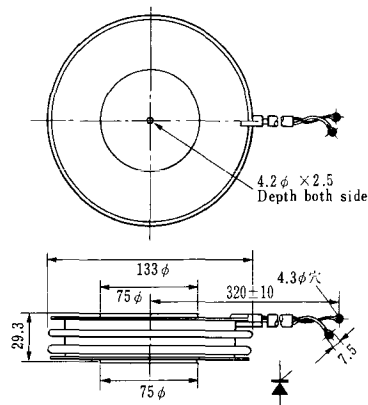


Unit in mm (inch)

H-16



H-17



H-18



H-19



H-20



H-21



H-22



H-23



H-24



H-25

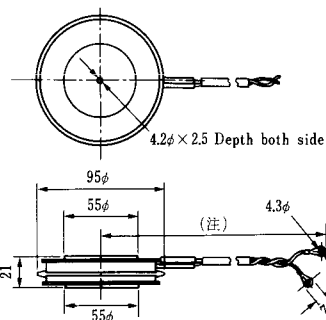


H-26



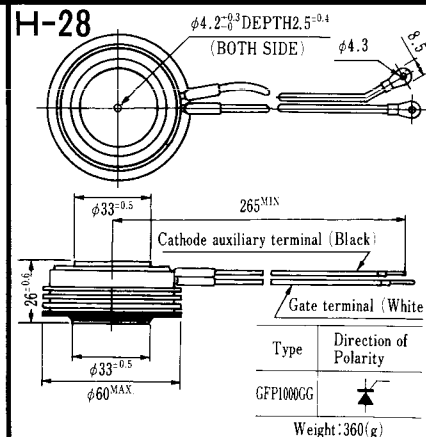
Type	Direction of polarity
CA12	

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. Weight: 870(g)

H-30



Note : The thickness is a dimension in press at the rated mounting force. Weight: 1,460(g)

HT-1



Unit in mm (inch)

HT-2



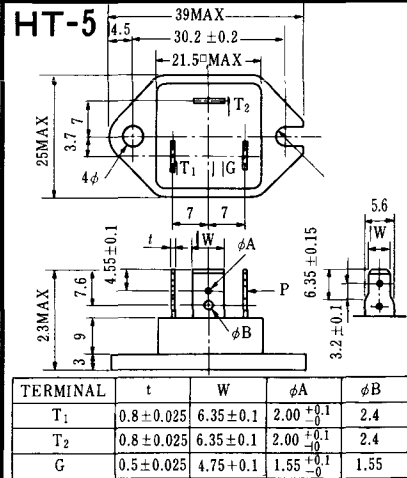
HT-3



HT-4



HT-5



《寸法図単位：mm》

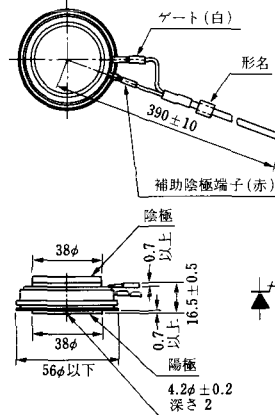
M-1



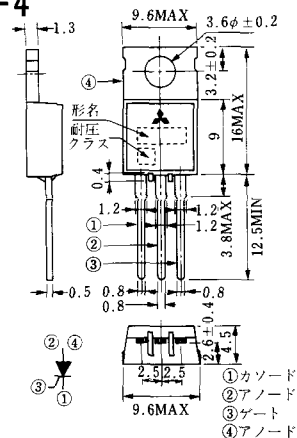
M-2



M-3



M-4



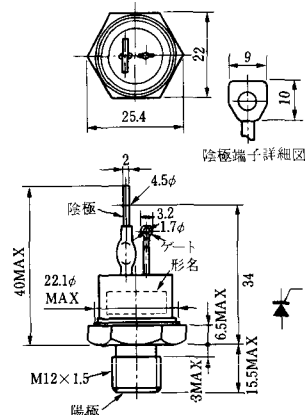
M-5



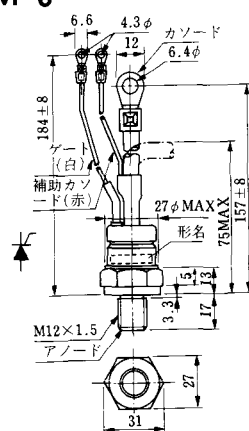
M-6



M-7



M-8



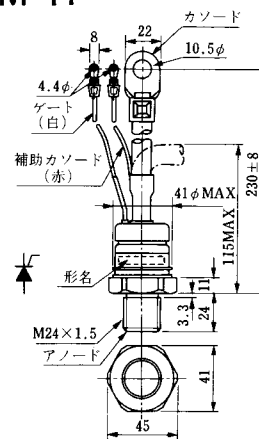
M-9



M-10



M-11



M-12



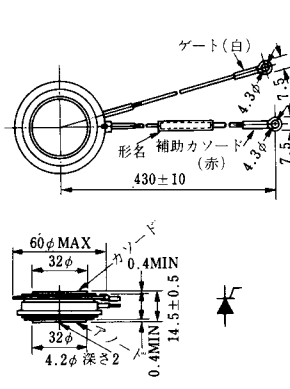
M-13



M-14



M-15



M-16



M-17



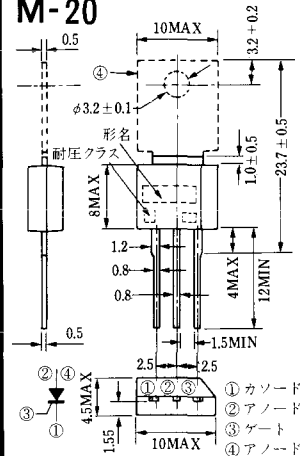
M-18



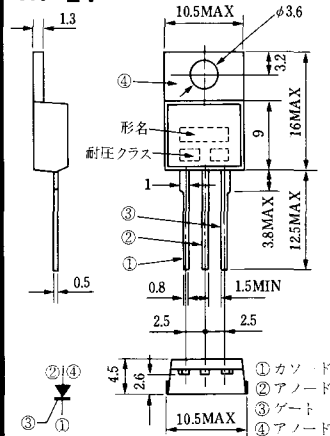
M-19



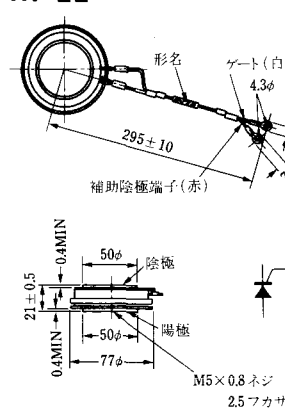
M-20



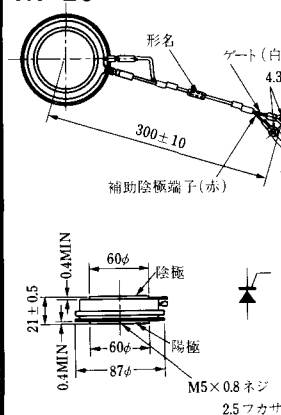
M-21



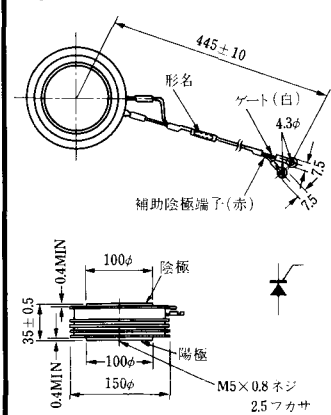
M-22



M-23



M-24



M-25



M-26



M-27



M-28



M-29



M-30



M-31



M-32



M-33



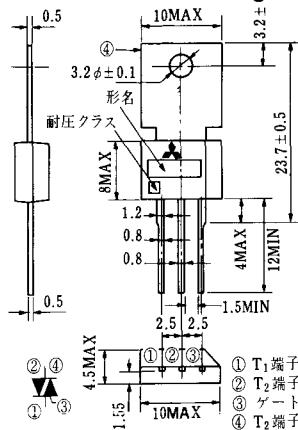
M-34



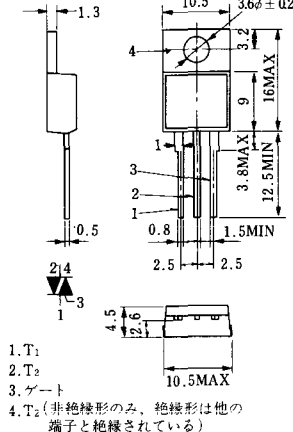
MT-1



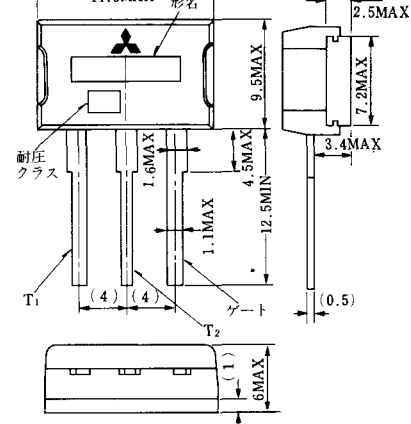
MT-2



MT-3



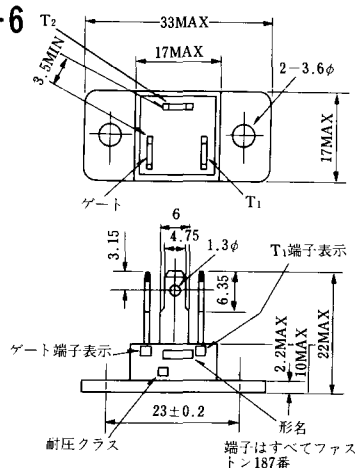
MT-4



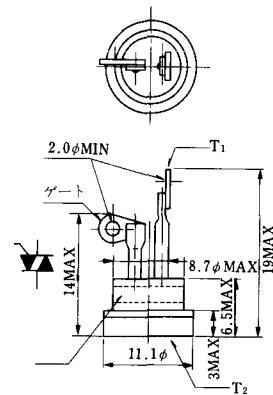
MT-5



MT-6



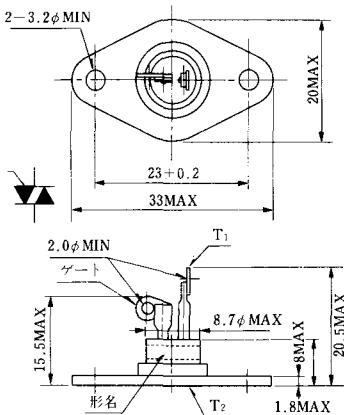
MT-7



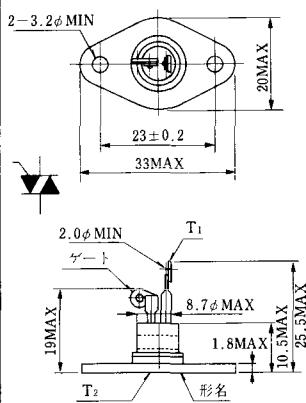
MT-8



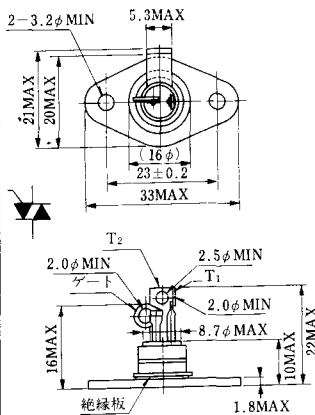
MT-9



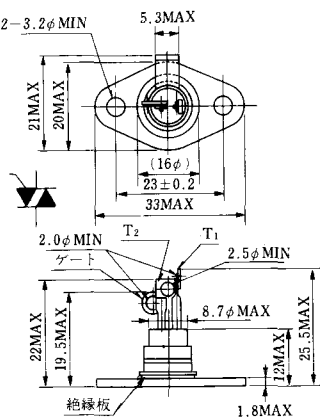
MT-10



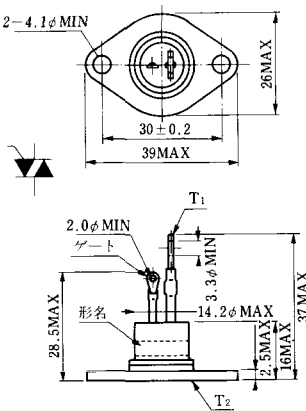
MT-11



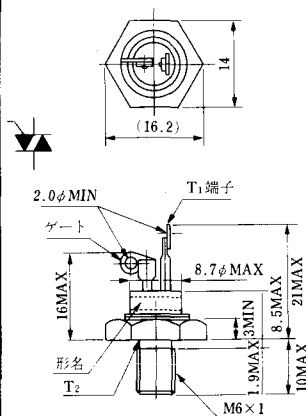
MT-12



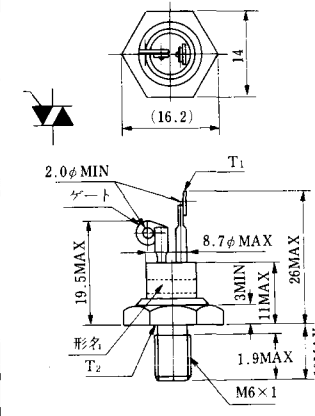
MT-13



MT-14



MT-15



MT-16



MT-17



MT-18



MT-19



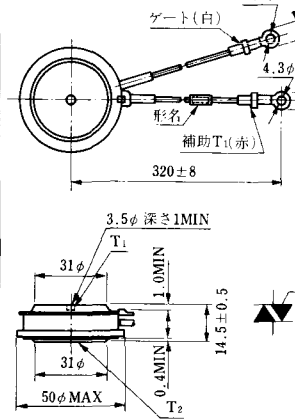
MT-20



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

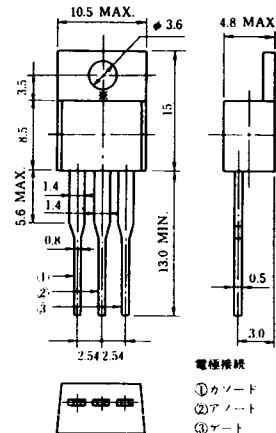
N-3



電極接続

- ① カソード
- ② アノード
- ③ ゲート

N-4



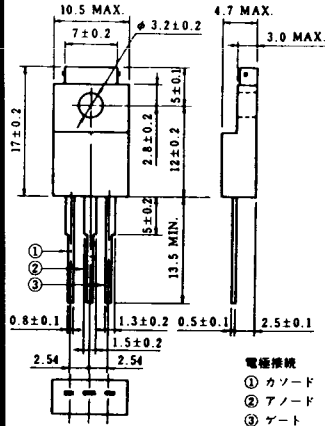
電極接続

- ① カソード
- ② アノード
- ③ ゲート

N-5



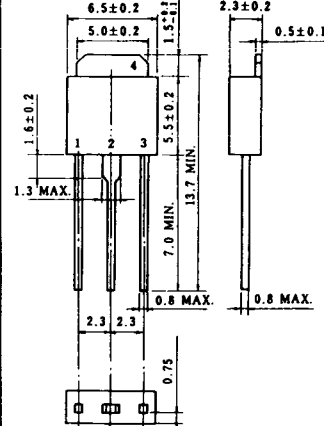
N-6



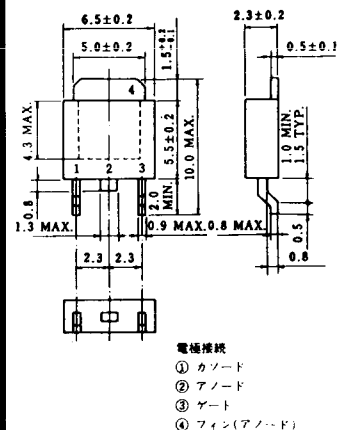
電極接続

- 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

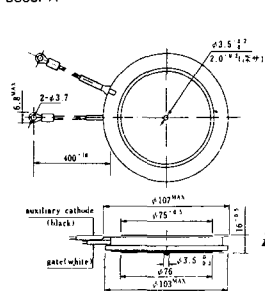
NI-16

503PLF
503PLH



NI-17

3003PA



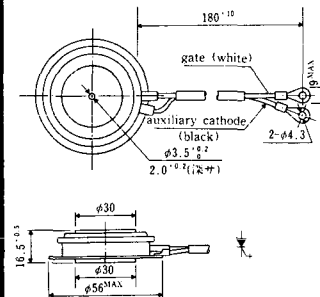
NI-18

353PGA「E



NI-19

603PGA, 603PGA「A, 803PGA



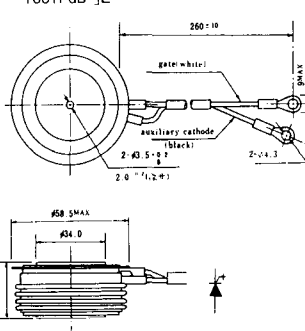
NI-20

603PGA「E



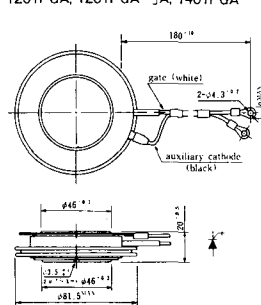
NI-21

1001PGB「E



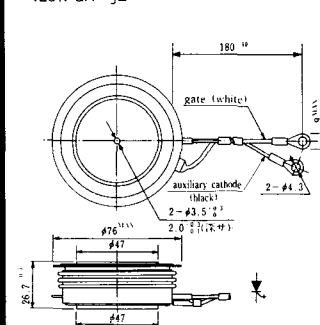
NI-22

1201PGA, 1201PGA「A, 1401PGA



NI-23

1201PGA「E



NI-24

2001PGB^r JE



NI-25

NI-26

NT-1



電極接続
①T₁
②ゲート
③T₂

NT-2



電極接続
①T₁
②ゲート
③T₂

NT-3



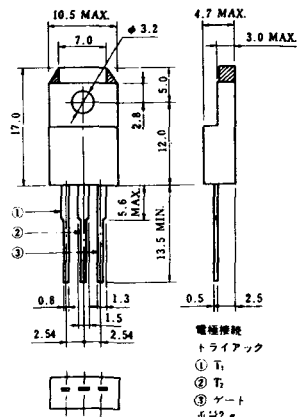
電極接続
①T₁
②T₂
③ゲート

NT-4



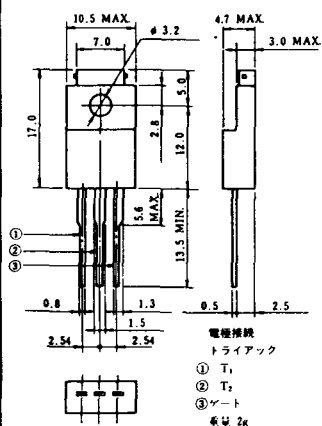
電極接続
①T₁
②T₂
③G

NT-5



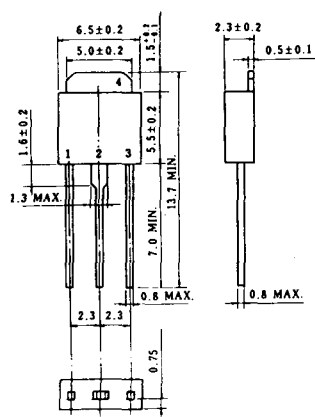
電極接続
トリアック
①T₁
②T₂
③ゲート
※2g

NT-6

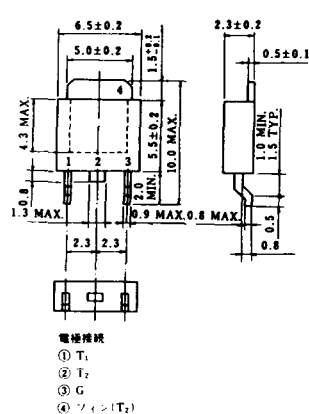


電極接続
トリアック
①T₁
②T₂
③ゲート
※2g

NT-7



NT-8



電極接続
①T₁
②T₂
③G
④フィ(T₂)

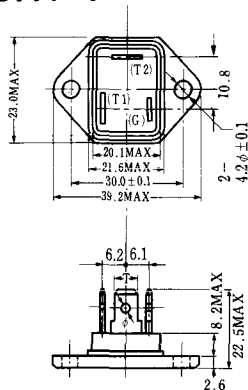
S-1



ST-1



SAT-1

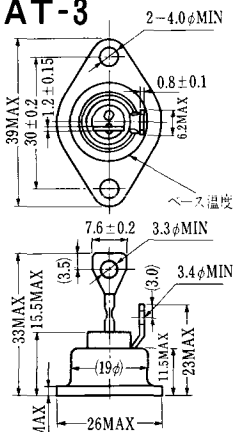


T1端子:ファストン250($T=6.35$, $t=0.8$, $\phi=1.65$)
T2端子:ファストン250($T=6.35$, $t=0.8$, $\phi=1.65$)
G端子:ファストン187($T=4.75$, $t=0.5$, $\phi=1.3$)

SAT-2



SAT-3



SAT-4



SAT-5



SAT-6



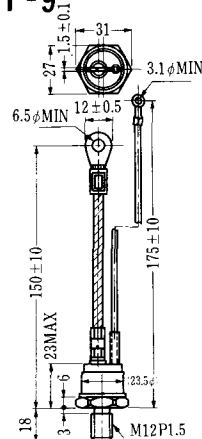
SAT-7



SAT-8



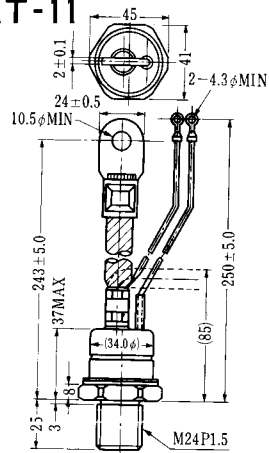
SAT-9.



SAT-10



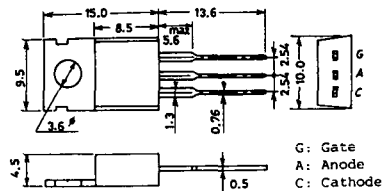
SAT-11



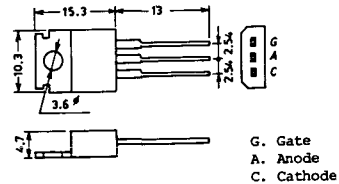
SY-1(1096A)



SY-2(1151)



SY-3(1104)



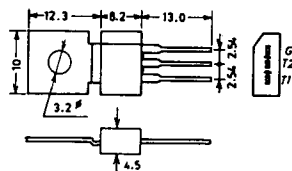
SY-4(1150)



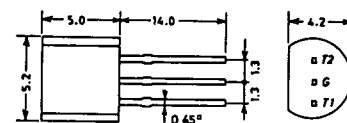
1097A



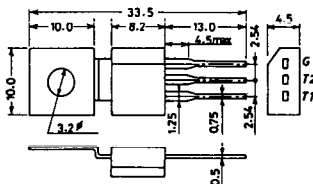
1102



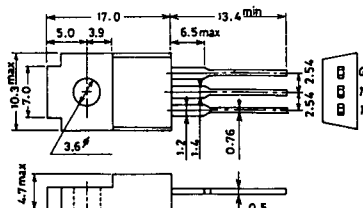
1141



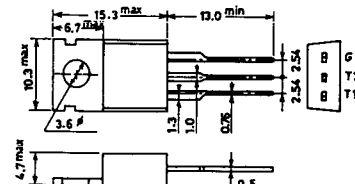
1142



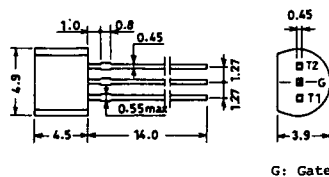
1144



1155



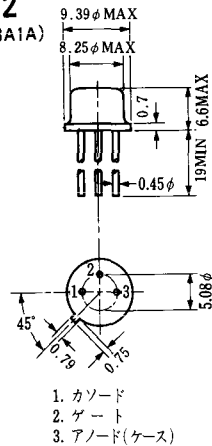
1192A



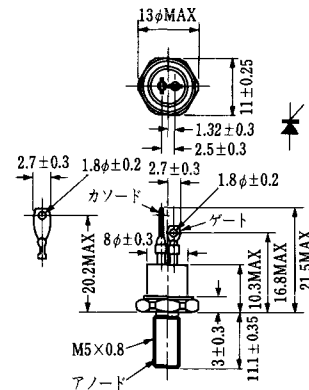
T-1 (13-5A1A)



T-2 (13-8A1A)



T-3 (13-8C1A)



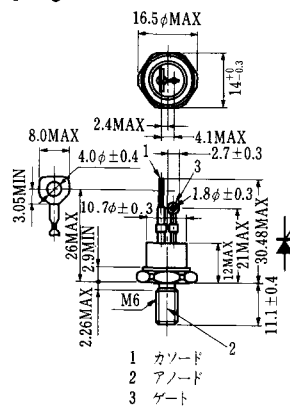
T-4 (13-10A1A)



T-5 (13-10B1A)



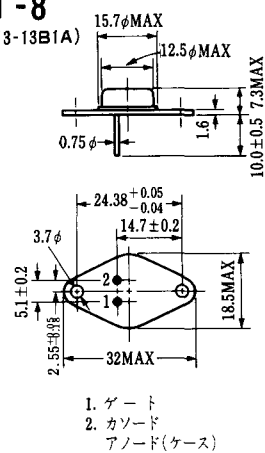
T-6 (13-11D1A)



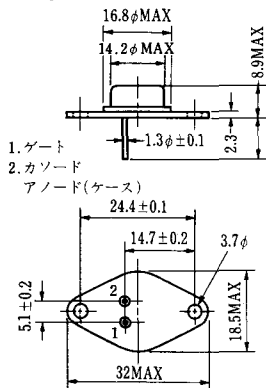
T-7 (13-13A1A)



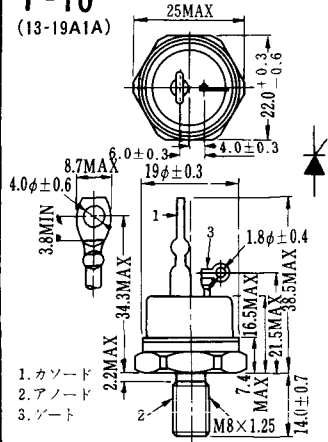
T-8 (13-13B1A)



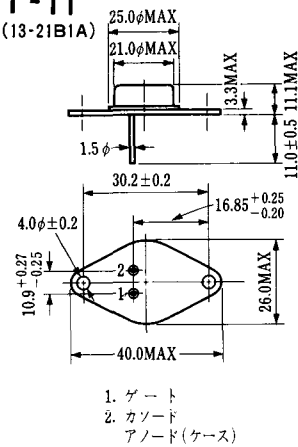
T-9 (13-14A1A)



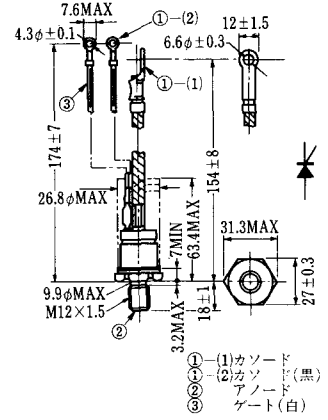
T-10 (13-19A1A)



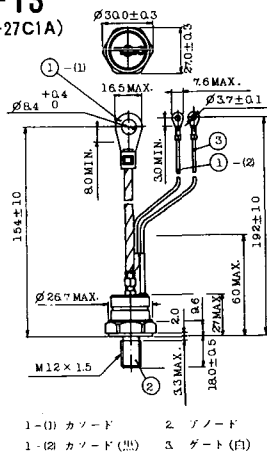
T-11 (13-21B1A)



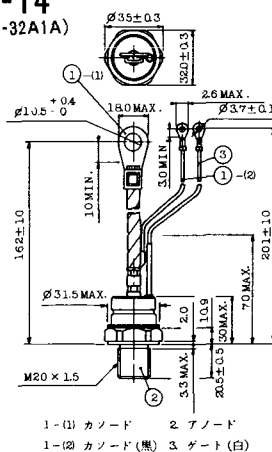
T-12 (13-27B1B)



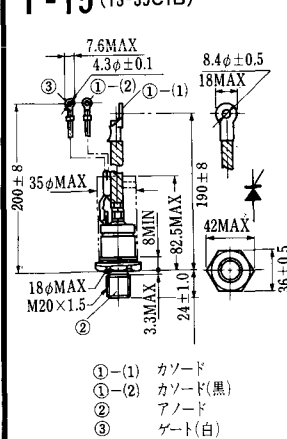
T-13 (13-27C1A)



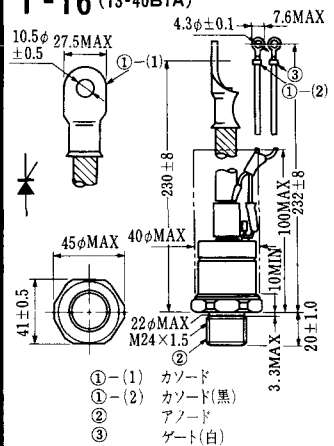
T-14 (13-32A1A)



T-15 (13-35C1B)



T-16 (13-40B1A)



T-17 (13-42A1A)



T-18 (13-45D1A)



T-19 (13-52B1A)



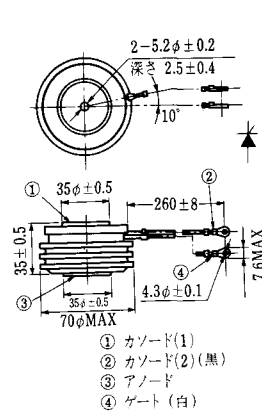
T-20 (13-52C1A)



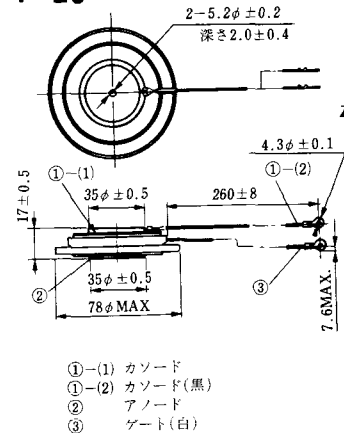
T-21 (13-60A1A)



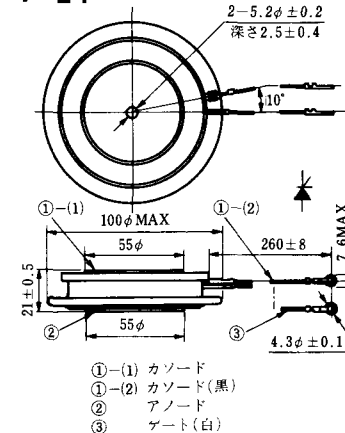
T-22 (13-70C1A)



T-23 (13-78A1A)



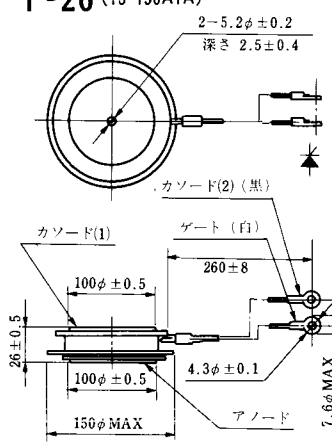
T-24 (13-100C1A)



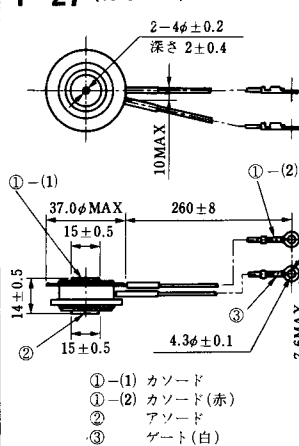
T-25 (13-120A2A)



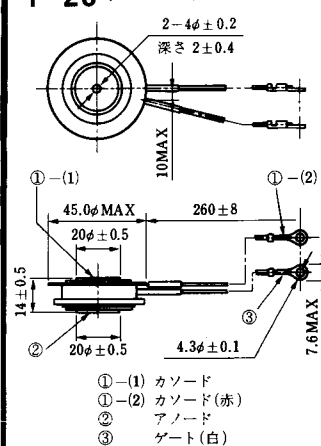
T-26 (13-150A1A)



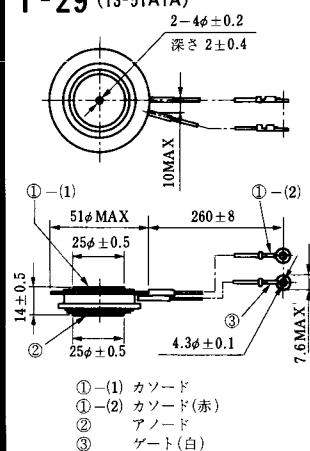
T-27 (13-37A1A)



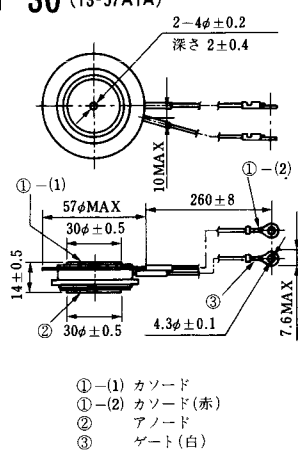
T-28 (13-45E1A)



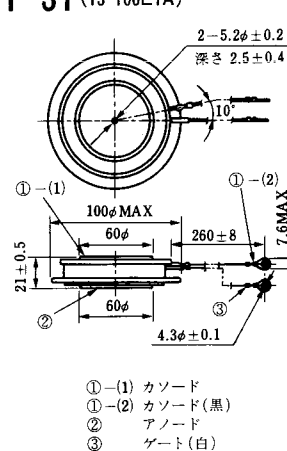
T-29 (13-51A1A)



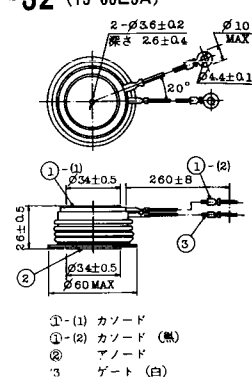
T-30 (13-57A1A)



T-31 (13-100E1A)



T-32 (13-60E3A)



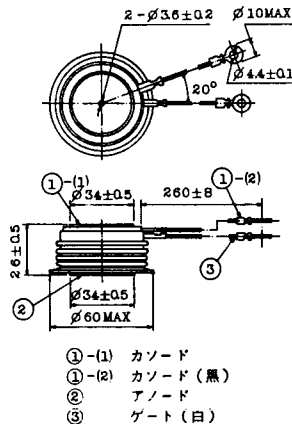
T-41 (13-28A2A)



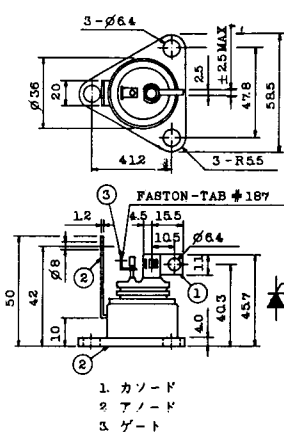
T-42 (13-45F1A)



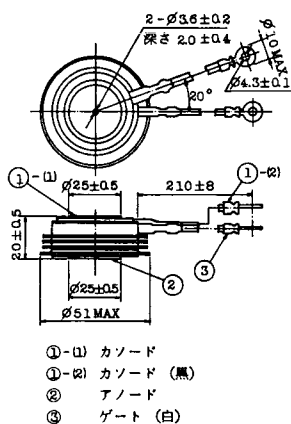
T-43 (13-60E2A)



T-44 (13-36A1A)



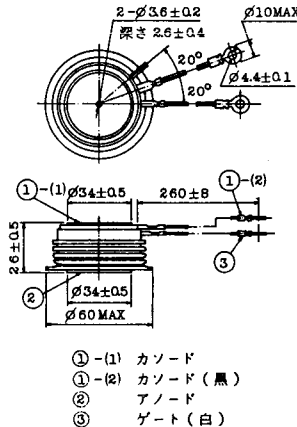
T-45 (13-51B1A)



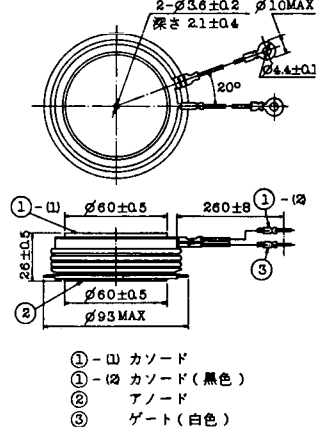
T-46 (13-36B1A)



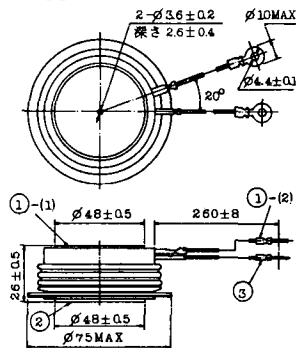
T-47 (13-60E1A)



T-48 (13-93C1A)

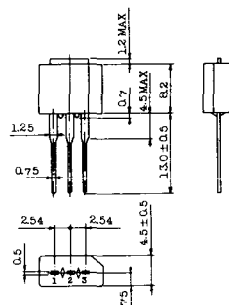


T-49 (13-75A1A)



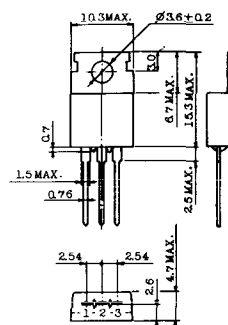
- 1-(1) カソード
1-(2) カソード (黒)
2 アノード
3 ゲート (白)

T-50 (13-10A3A)



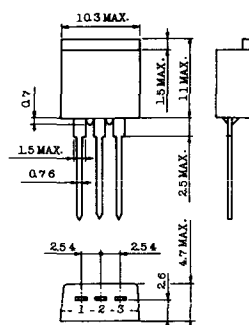
- 1 カソード
2 アノード
3 ゲート

T-51 (13-10D1A)



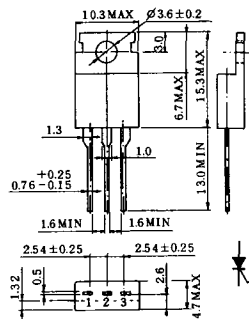
- 1 カソード
2 アノード
3 ゲート

T-52 (13-10D2A)



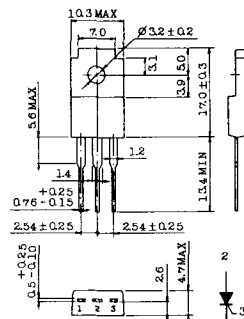
- 1 カソード
2 アノード
3 ゲート

T-53 (13-10E1B)



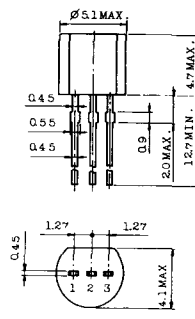
- 1 カソード
2 アノード
3 ゲート

T-54 (13-10F1B)



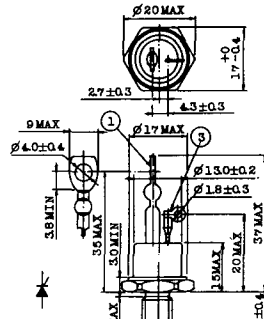
- 1 カソード
2 アノード
3 ゲート

T-55 (13-5A1D)



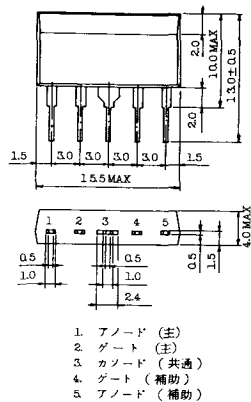
- 1 カソード
2 ゲート
3 アノード

T-56 (13-13C1A)

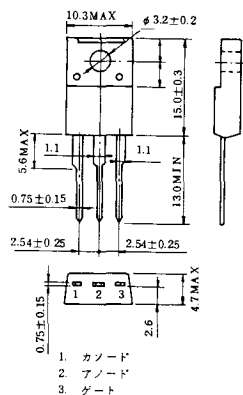


- 1 カソード
2 アノード
3 ゲート

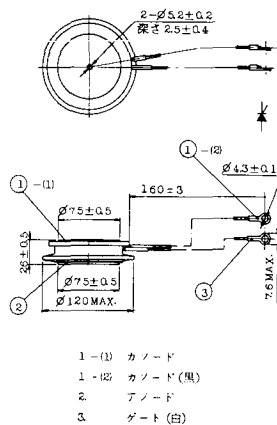
T-57 (12-16C1A)



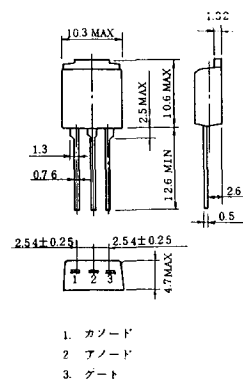
T-58 (13-10H1B)



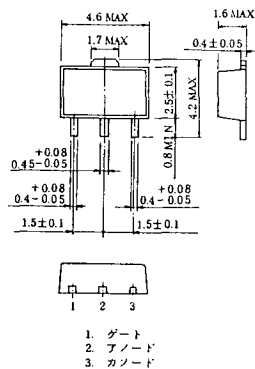
T-59 (13-120A1A)



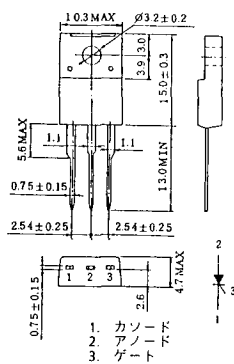
T-60



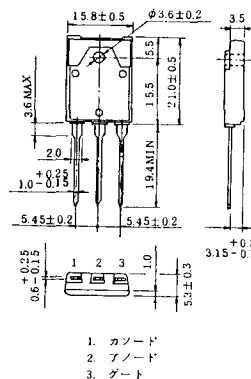
T-61 (13-5B1A)



T-62 (13-10H1A)



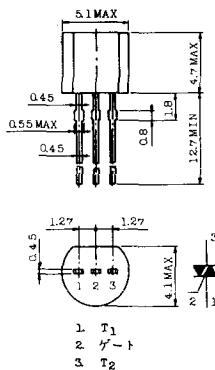
T-63 (13-16A1B)



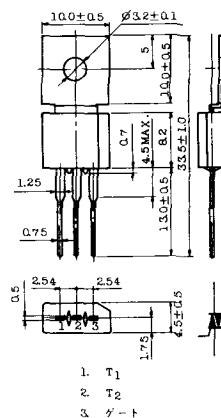
TT-1



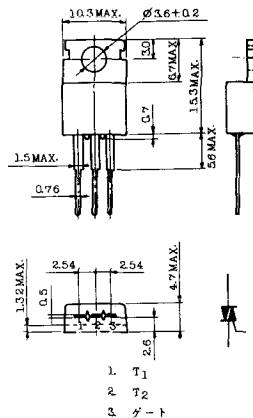
TT-2



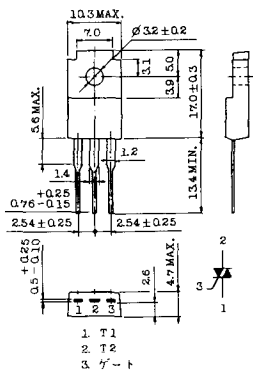
TT-3



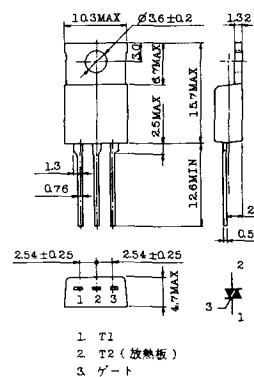
TT-4



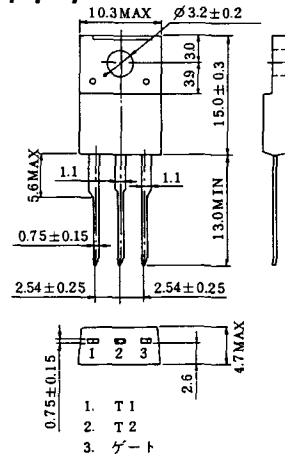
TT-5



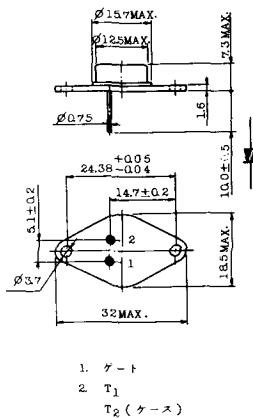
TT-6

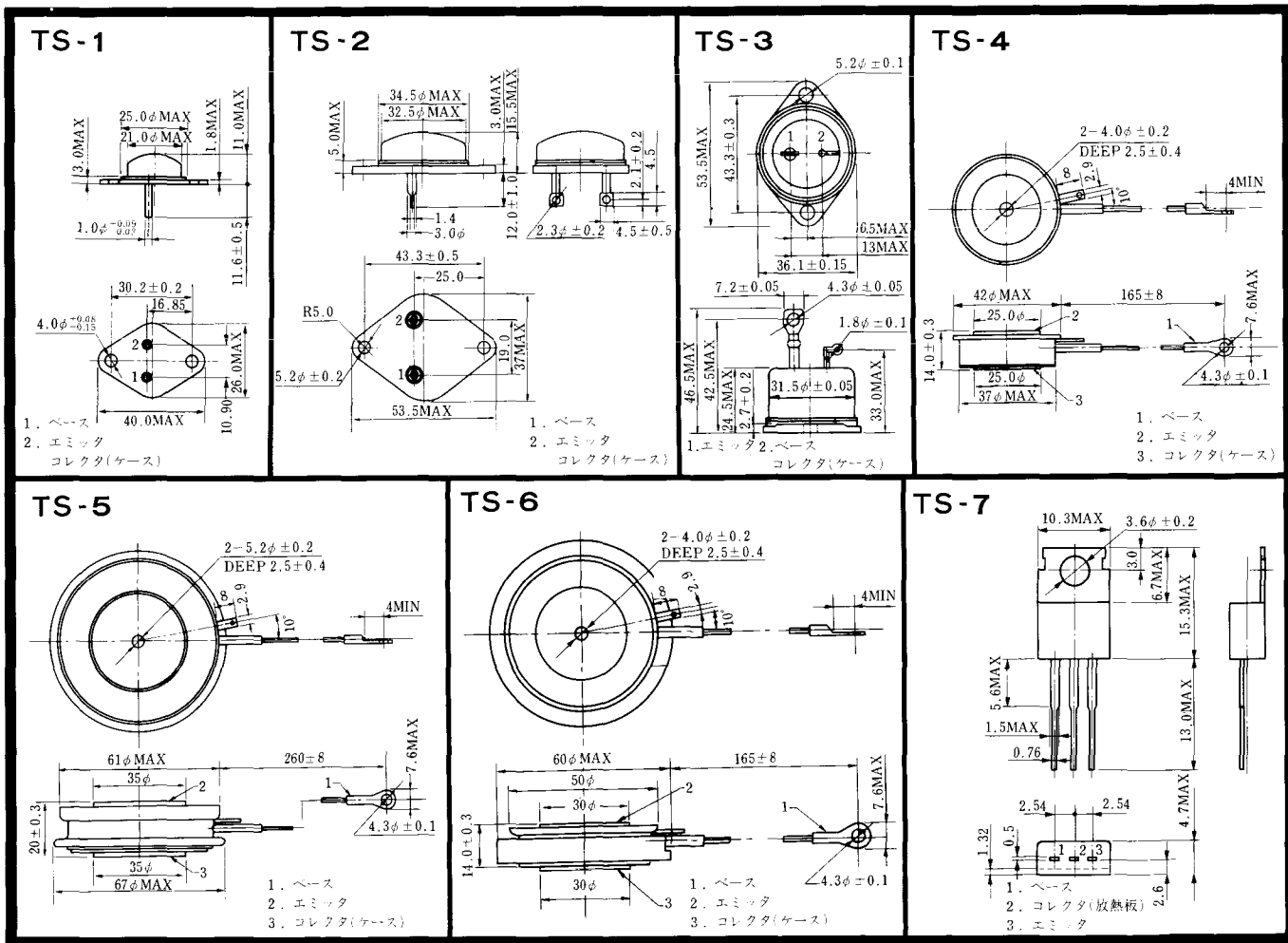


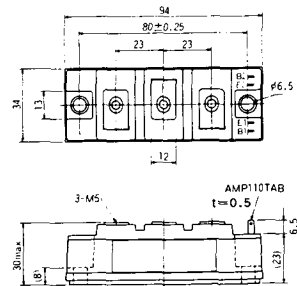
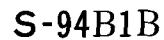
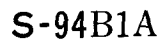
TT-7



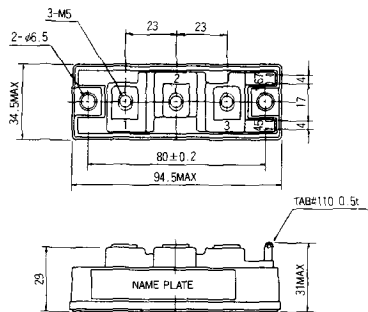
TT-8



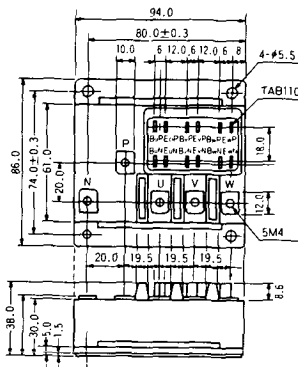




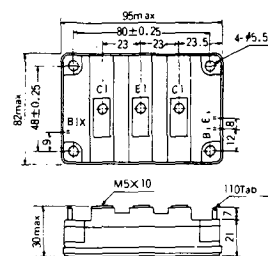
S-94B2A



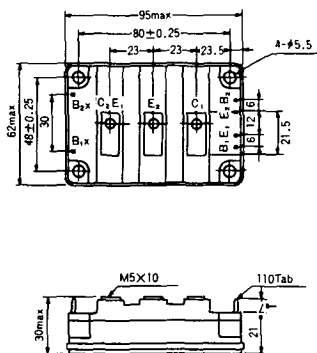
S-94D1A



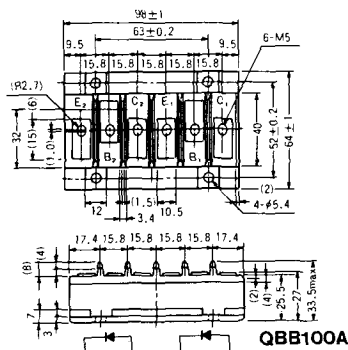
S-95A1A



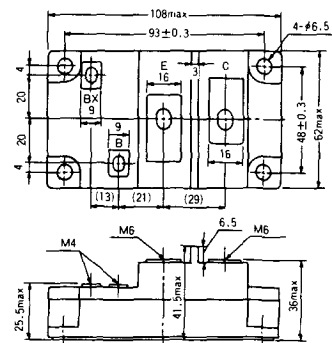
S-95B1A



S-98B1B



S-108A2A



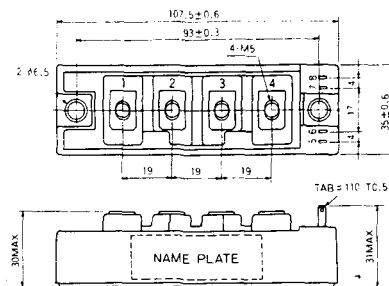
S-108B1A



S-108B1B



S-108B1C



S-108B2A



S-108B2B



2-22B1A



2-27A4A



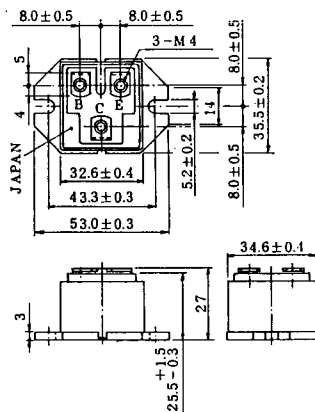
2-33C1A



2-33D1A



2-33F1A



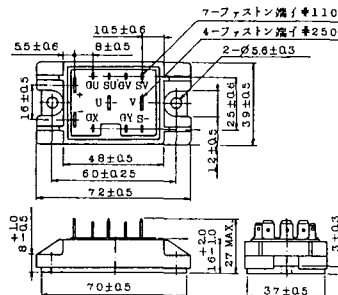
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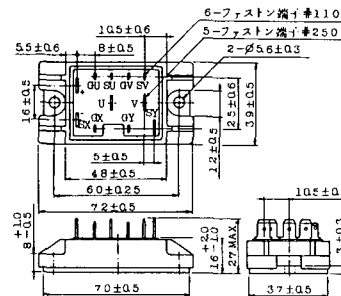
2-48A3A



2-48A3B



2-48A4A



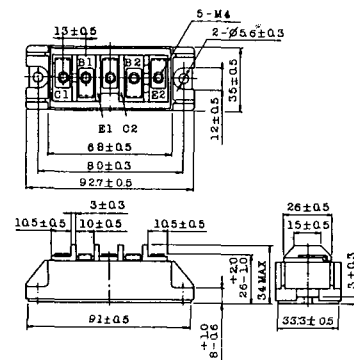
2-64A2A



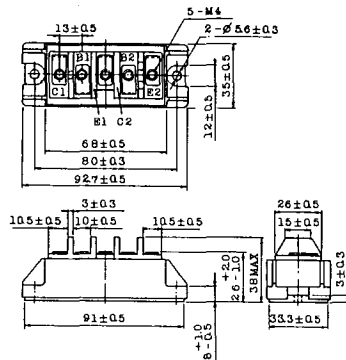
2-64A2B



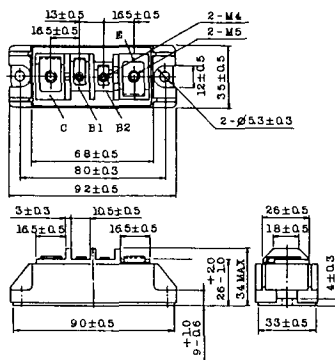
2-68A2A



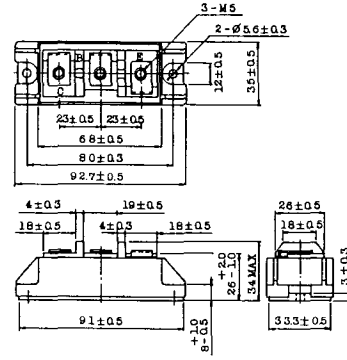
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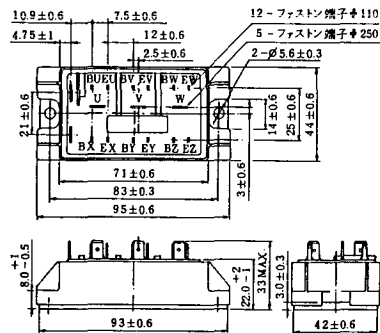
2-68C1A



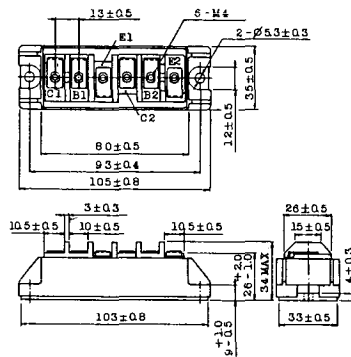
2-68D2A



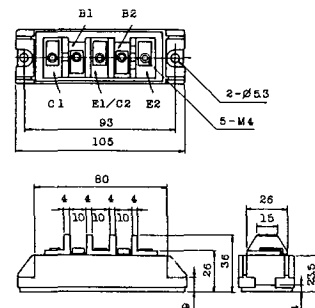
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2-80A1A



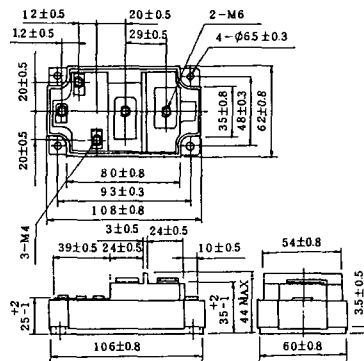
2-80B1A



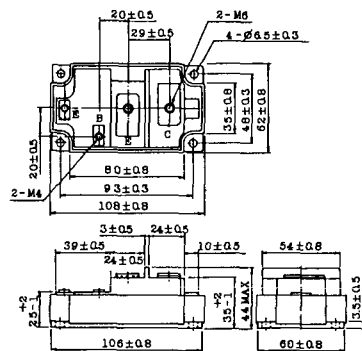
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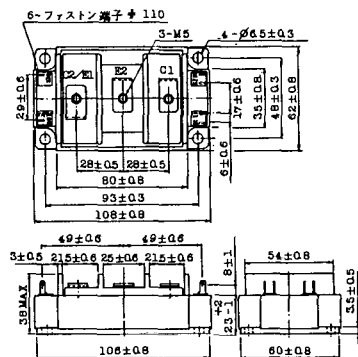
2-109A3A



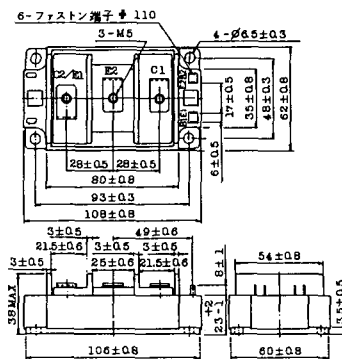
2-109A4A



2-109B3A



2-109B4A



BBT-II

BBTII
1D200A-020



BBT-III

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



BBT-III

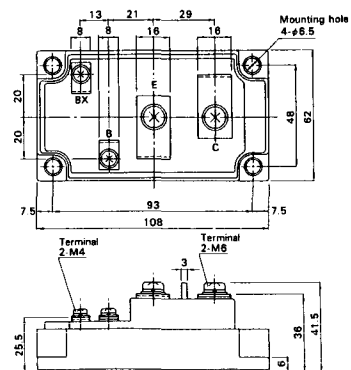
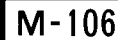
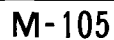
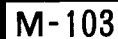
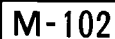
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ETN01-055
ET1257



BBT-IV

BBTIV
1D500A-030

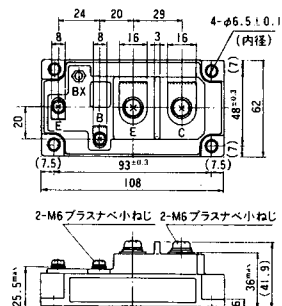




M-107



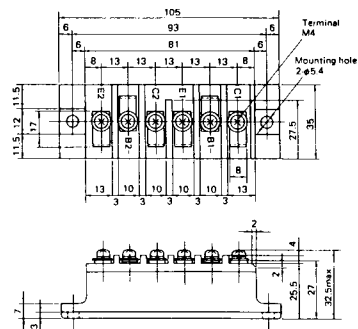
M-116



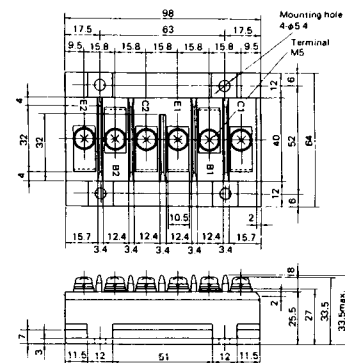
M-201



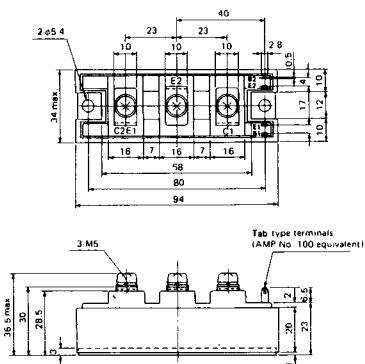
M-202



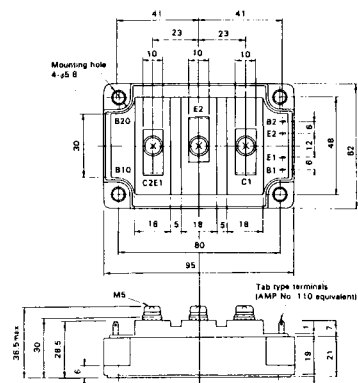
M-203



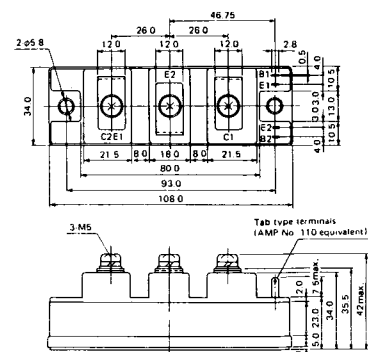
M-204



M-205



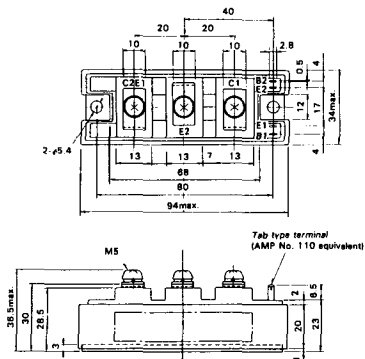
M-206



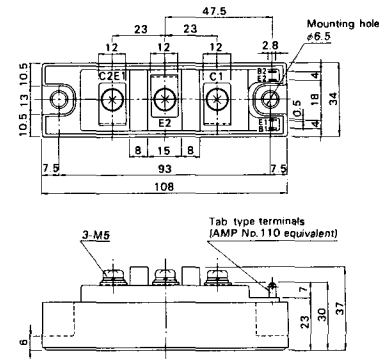
M-207



M-208



M-209



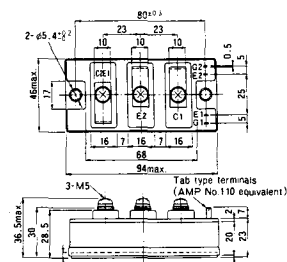
M-210



M-211



M-212



M-213



M-214

M-215



M-216



M-217



M-218



M-601



M-602



M-603



M-604



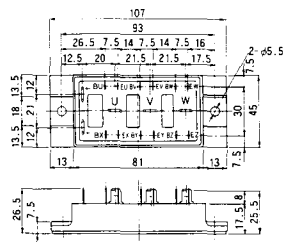
M-605



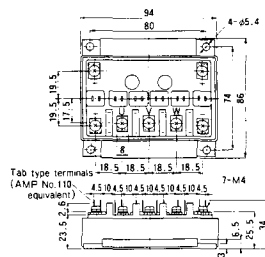
M-606



M-607



M-608



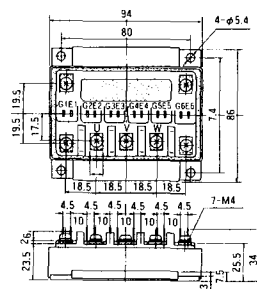
M-609



M-610



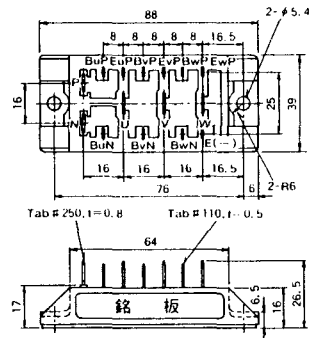
M-616



M-2E6A



M-2F6A



M-2G6A



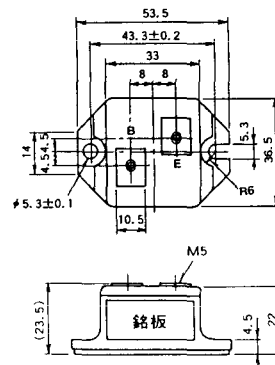
M-3A1A



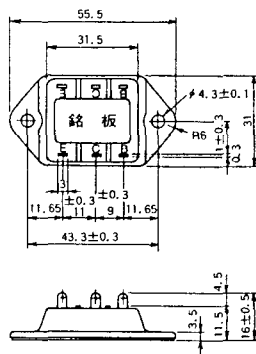
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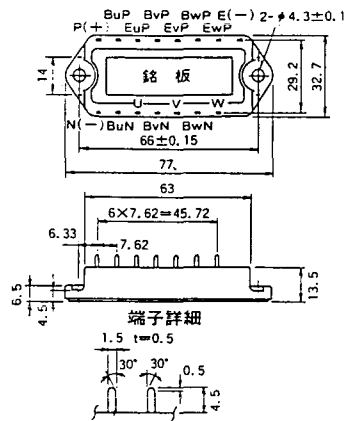
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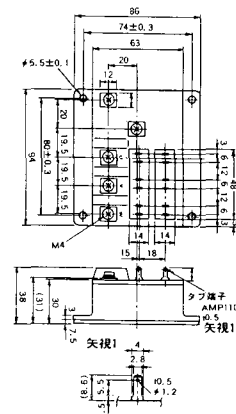
M-3C1A



M-3D6A



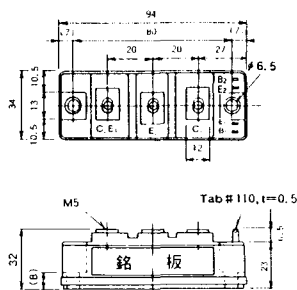
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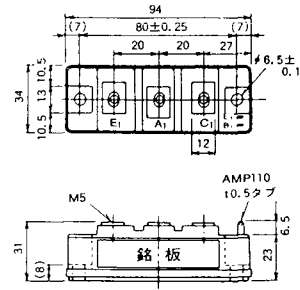
M-4A1A



M-4A2A



M-4A1B



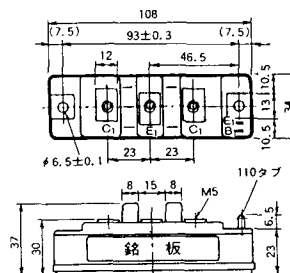
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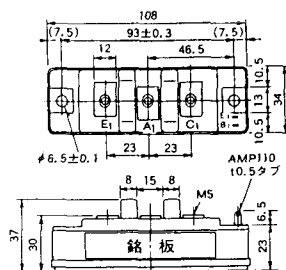
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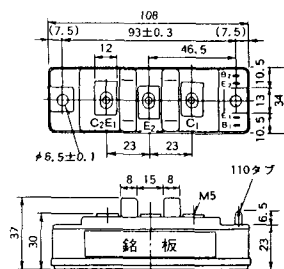
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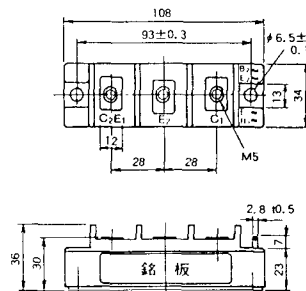
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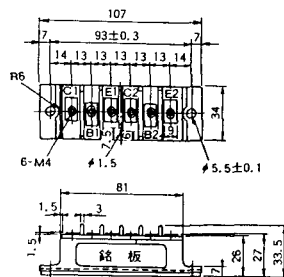
M-5A2A



M-5B2A



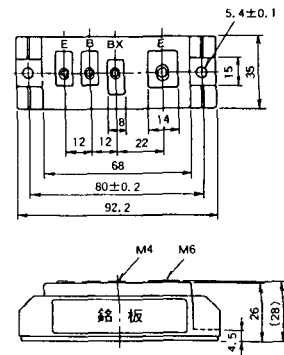
M-5C2A



M-5D2A



M-6A1A



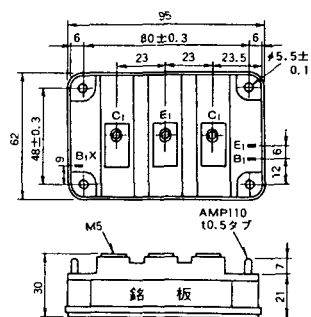
M-7A1A



M-7B1A



M-8A1A



M-8A1B



M-8A2A



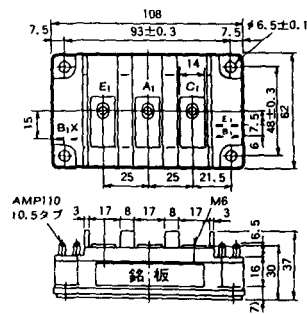
M-8A2B



M-8B2A



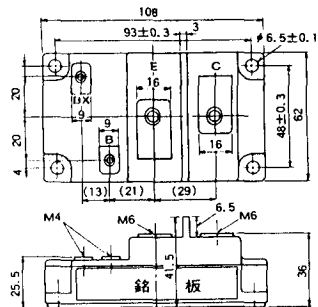
M-9A1A



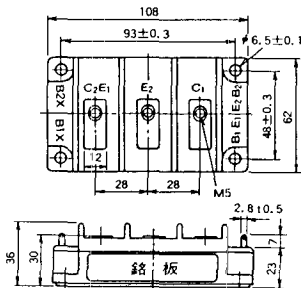
M-9A2A



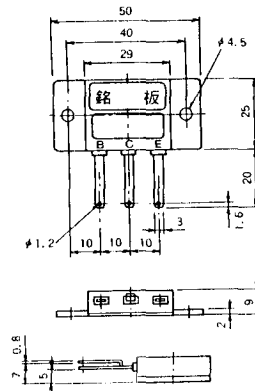
M-9B1A



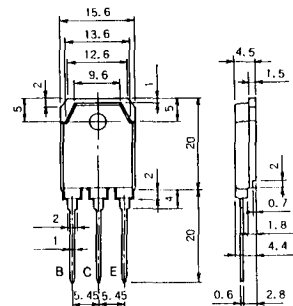
M-9C2A



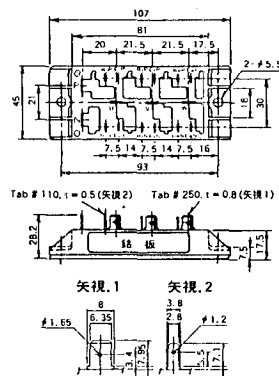
M-1A1B



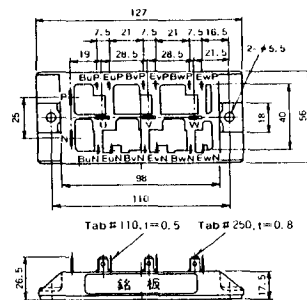
M-1A1C



M-2E6B



M-2E6C



M-4A2D



M-4A2E



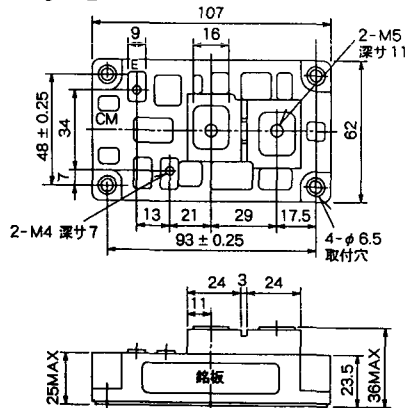
M-4C2A



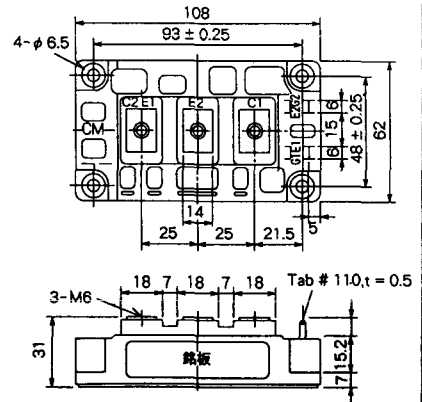
M-4C2B



M-9B1C



M-9D2A



M-9D2B



M-10A2C



H-101



Weight :480g

TERMINALS

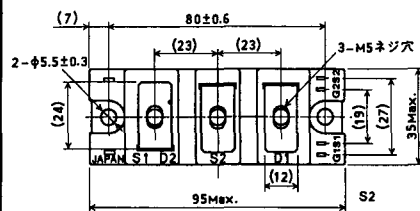
H-201



H-202



LF-J



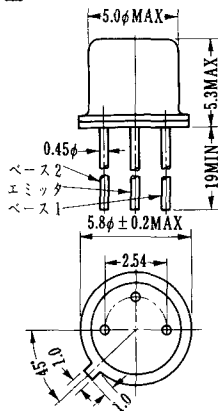
LF-K



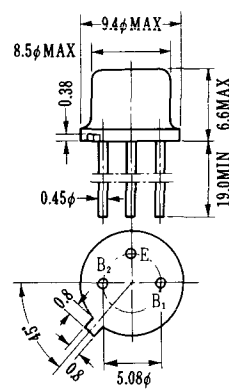
U-1



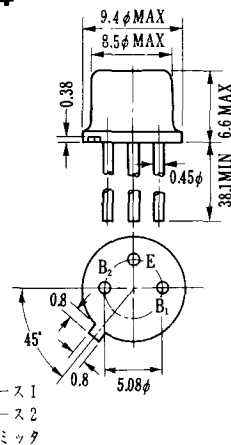
U-2



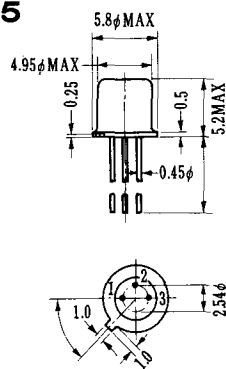
U-3



U-4

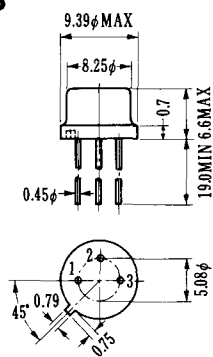


U-5



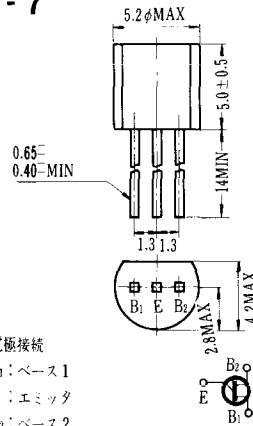
1. BASE 1
2. EMITTER
3. BASE 2 (CASE)

U-6



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

U-7



U-8

