

注1. $I_C = 1\text{ A}$, $V_{EB} = 2\text{ V}$, #印は V_{CEX} ($V_{EB} = 2\text{ V}$)。 注2. 60 Hz , 単相半波1サイクル波高値。 注3. $T_C = 25^\circ\text{C}$ 。 注4. AC, 1分間。

型 名	最 大 定 格 (T _J =25℃)											電 気 的 特 性									
	V _{CEO}	V _{CEX} (GUS) (注1)	V _{EB0}	I _C	I _B	I _F	I _{FM} (注2)	P _C (注3)	T _J	T _{stg}	V _{iso} (注4)	I _{CEX} (mA)	V _{CE} (V)	V _{EB} (V)	I _{EB0} (mA)	V _{EB} (V)	V _{CEO} (GUS) (V)	I _C	h _{FE}	V _{CE} (V)	I _C (A)
	(V)	(V)	(V)	(A)	(A)	(A)	(A)	(W)	(℃)	(℃)	(V)	最大	最大	最大	最大	最大	最小	最小	最小	最小	最小
QM200HA-H	600	600	7	200	12	200	2000	1250	150	-40~125	2500	4	600	2	200	7			75/100	2/5	200
QM200HA-2H	1000	1000	7	200	10	200	2000	1560	150	-40~125	2500	4	1000	2	800	7			75/100	2.8/5	200
QM200HA-2.4	1200	1200	7	200	10	200	2000	1560	150	-40~125	2500	4	1200	2	800	7			75	5	200
QM200HC-M	400	350	10	200	6.0	200	2000	830	150	-40~125	—	1	350	2	400	10			100	2	200
QM300HA-H	600	600	7	300	18	300	3000	1380	150	-40~125	2500	4	600	2	300	7			75/100	2/5	300
QM300HA-2H	1000	1000	7	300	16	300	3000	1980	150	-40~125	2500	4	1000	2	400	7			75/100	2.8/5	300
QM300HA-2.4	1200	1200	7	300	16	300	3000	1980	150	-40~125	2500	4	1200	2	400	7			75	5	300
QM300HC-M	400	350	10	300	10	300	3000	1250	150	-40~125	—	2	350	2	600	10			100	2	300
QM400HA-H	600	600	7	400	10	400	4000	1500	150	-40~125	2500	5	600	2	400	7			750	2.5	400
QM400HA-2H	1000	1000	7	400	20	400	4000	3120	150	-40~125	2500	8	1000	2	600	7			75/100	2.8/5	400
QM400HA-2.4	1200	1200	7	400	20	400	4000	3120	150	-40~125	2500	8	1200	2	600	7			75	5	400
QM500HA-H	600	600	7	500	10	500	5000	1780	150	-40~125	2500	5	600	2	500	7			750	2.5	500
QM600HA-2H	1000	1000	7	600	30	600	6000	3500	150	-40~125	2500	8	1000	2	800	7			75/100	2.8/5	600
QM600HA-2.4	1200	1200	7	600	30	600	6000	3500	150	-40~125	2500	8	1200	2	800	7			75	5	600
QM600HD-M	400	350	10	600	15			2080	150	-40~125	2500	2	350	2	800	10			500	2	600

FD-1



FD-2



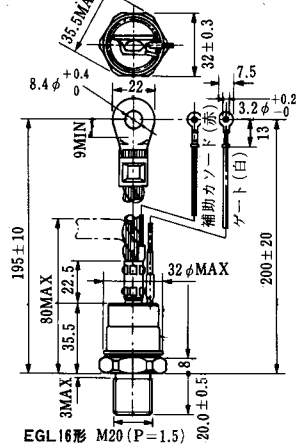
FD-3



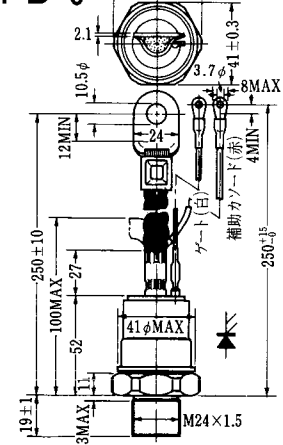
FD-4



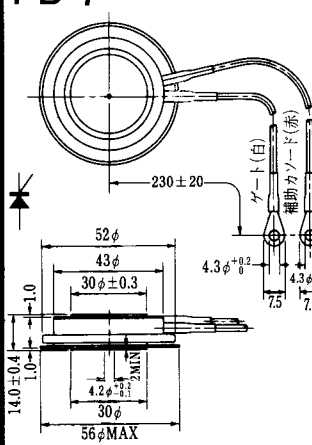
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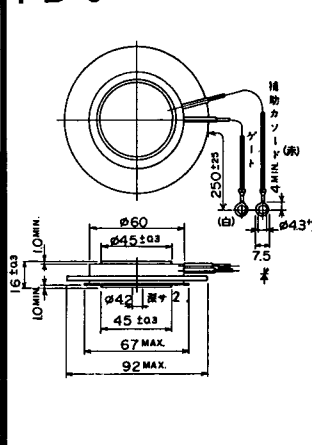
FD-6



FD-7



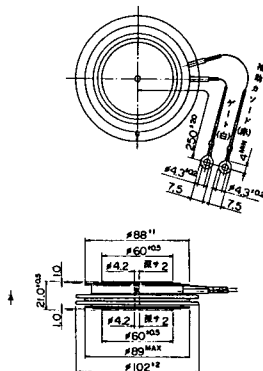
FD-8



FD-9



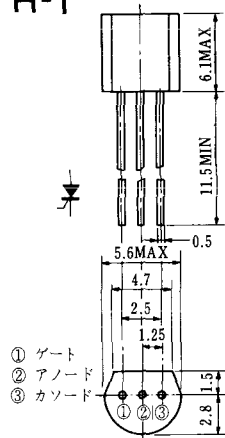
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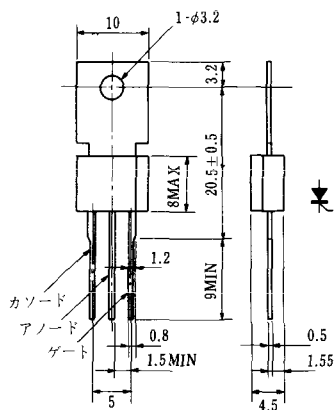
FD-11

FD-12

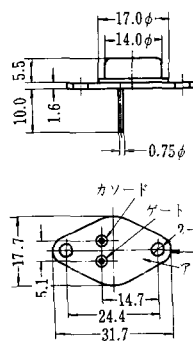
H-1



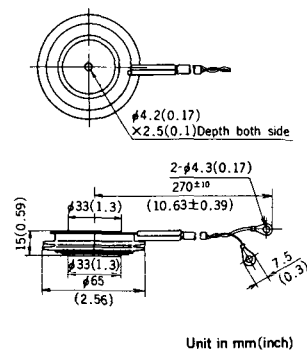
H-2



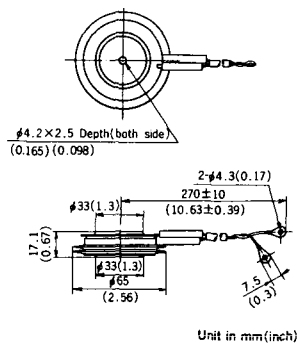
H-3



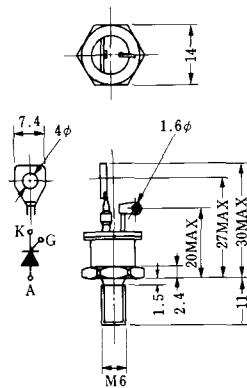
H-4



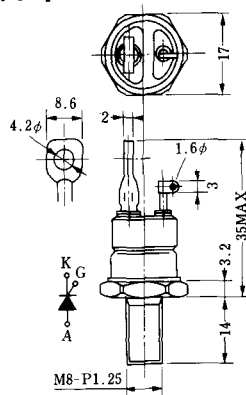
H-5



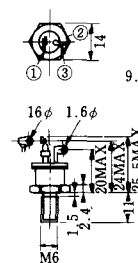
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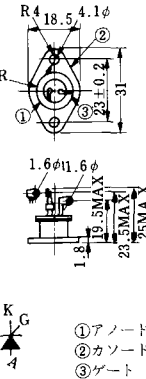
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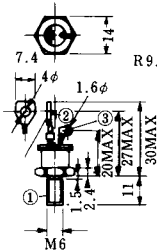
H-8A



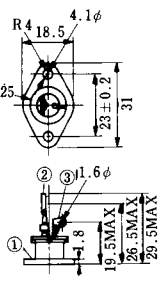
H-8B



H-9A

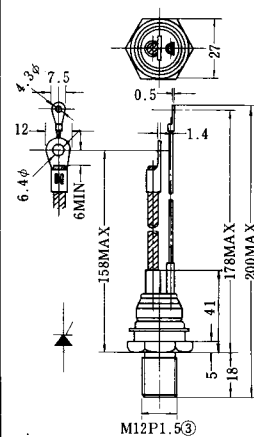


H-9B

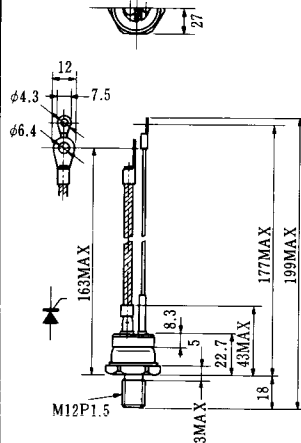


- ① アノード
- ② カソード
- ③ ゲート

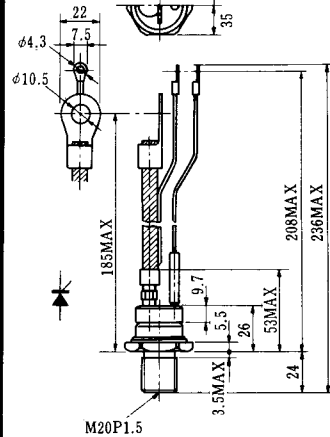
H-10



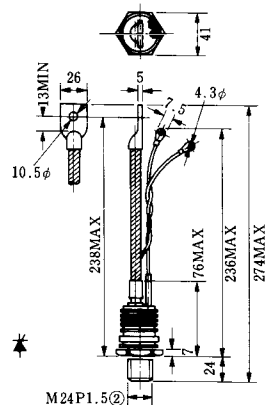
H-11



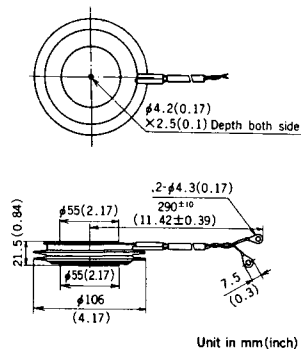
H-12



H-13

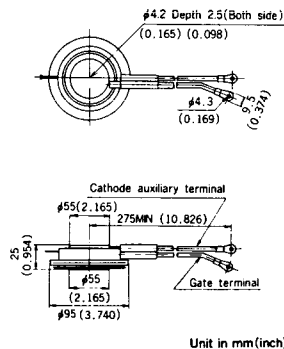


H-14



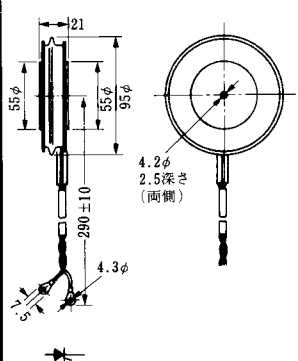
Unit in mm (inch)

H-15

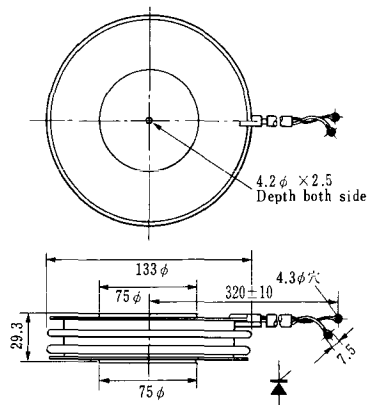


Unit in mm (inch)

H-16



H-17



H-18



H-19



H-20



H-21



H-22



H-23



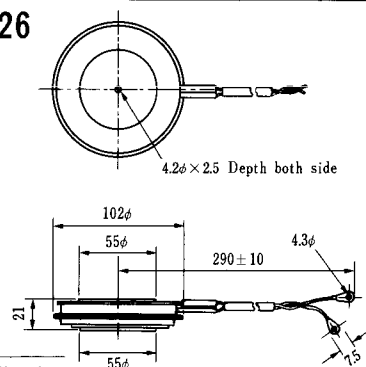
H-24



H-25



H-26



Type	Direction of polarity
CA12	

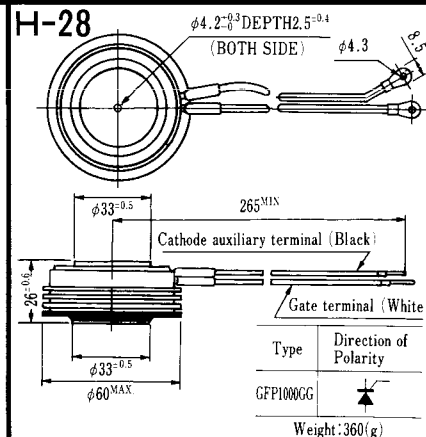
H-27



Type	Direction of polarity
CF11V	

(注) CC11V: 400 $\pm$ 10
CF11V: 250 $\pm$ 10

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



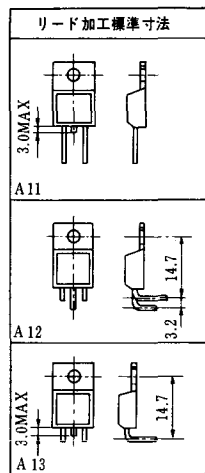
Note : The thickness is a dimension in press at the rated mounting force.

HT-1

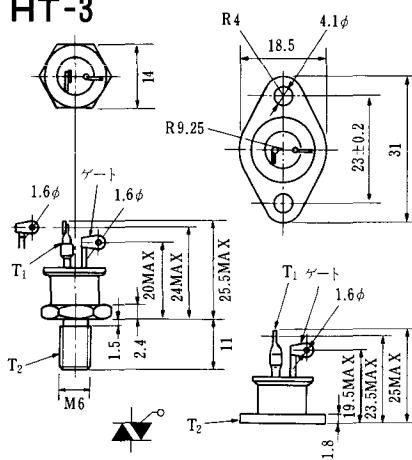


Unit in mm (inch)

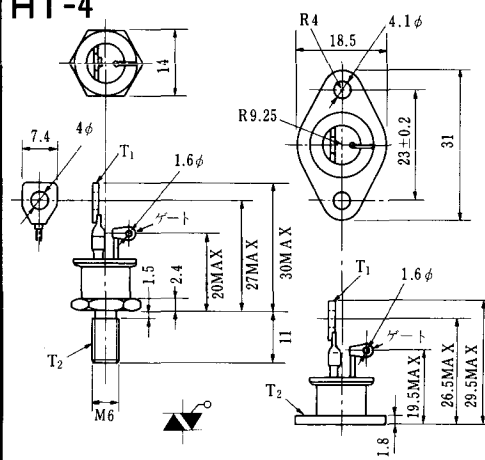
HT-2



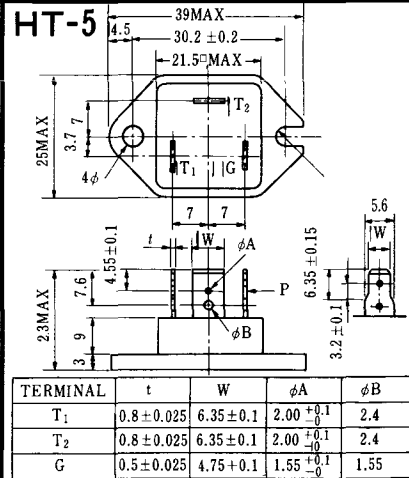
HT-3



HT-4



HT-5



《寸法図単位：mm》

M-1



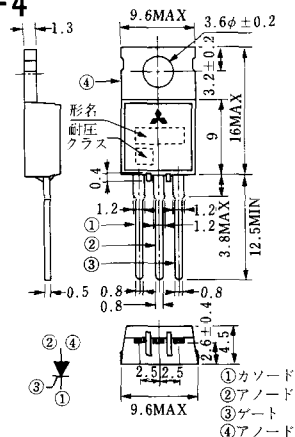
M-2



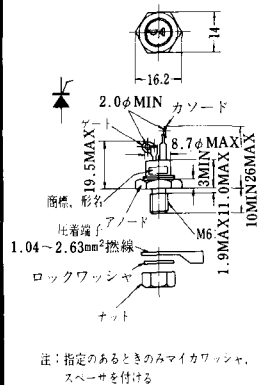
M-3



M-4



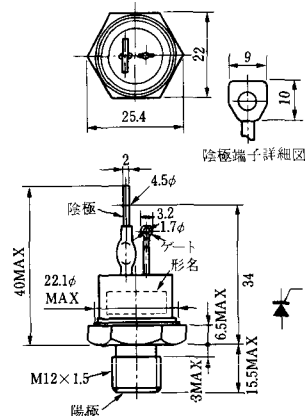
M-5



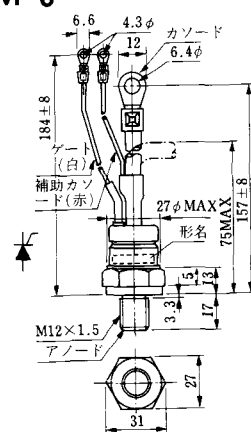
M-6



M-7



M-8



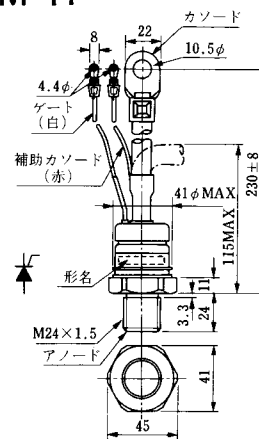
M-9



M-10



M-11



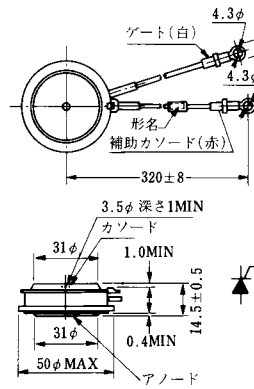
M-12



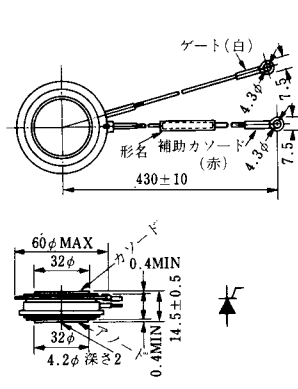
M-13



M-14



M-15



M-16



M-17



M-18



M-19



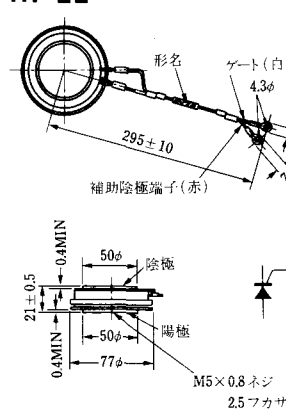
M-20



M-21



M-22



M-23



M-24



M-25



M-26



M-27



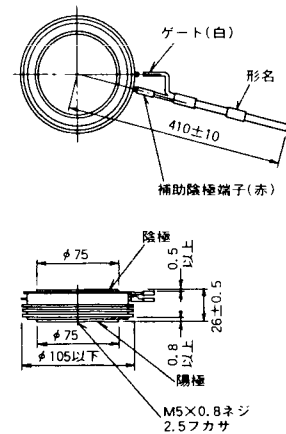
M-28



M-29



M-30



M-31



M-32



M-33



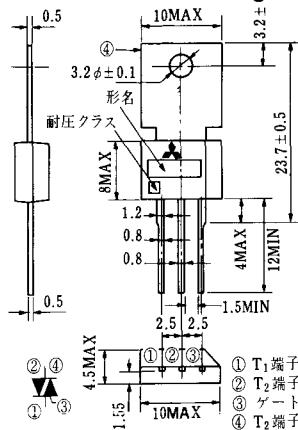
M-34



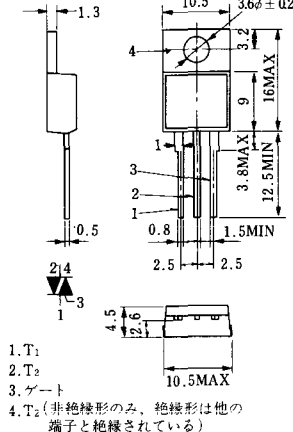
MT-1



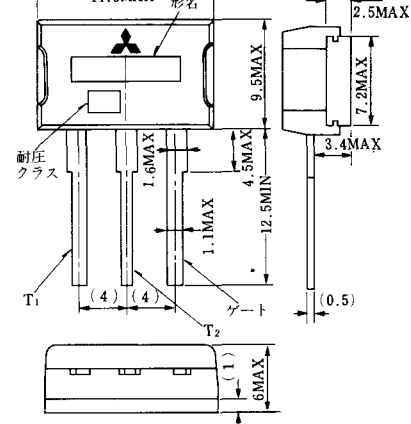
MT-2



MT-3



MT-4



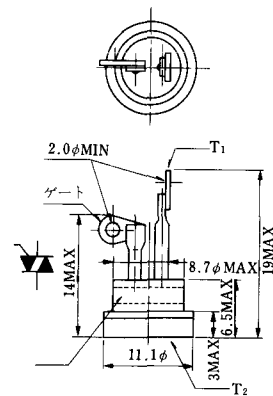
MT-5



MT-6



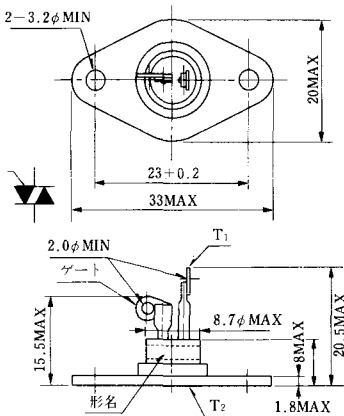
MT-7



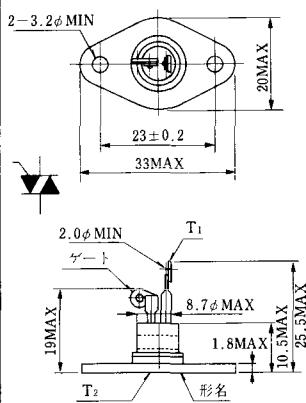
MT-8



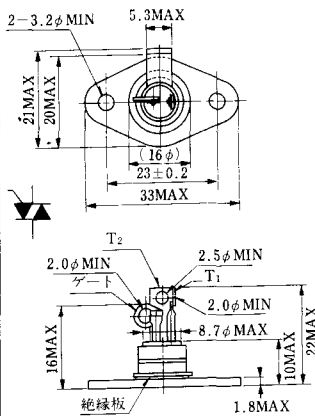
MT-9



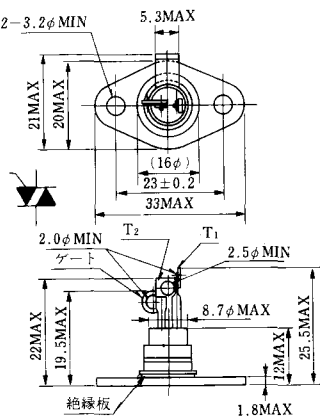
MT-10



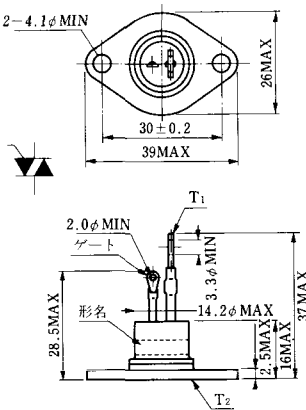
MT-11



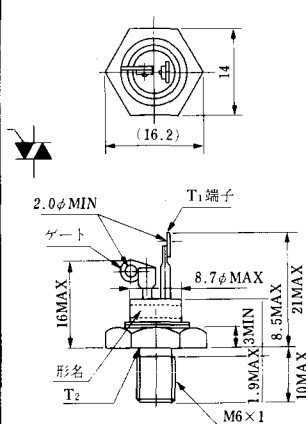
MT-12



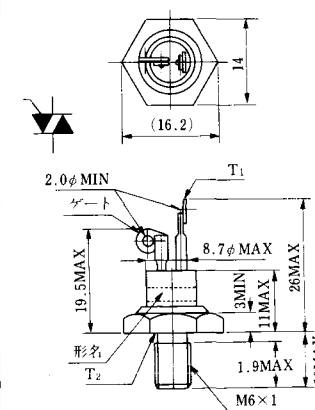
MT-13



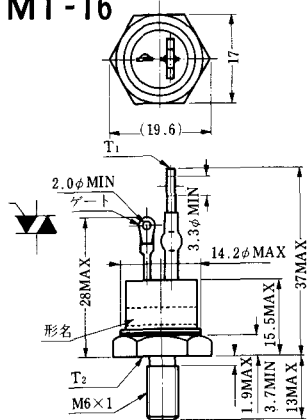
MT-14



MT-15



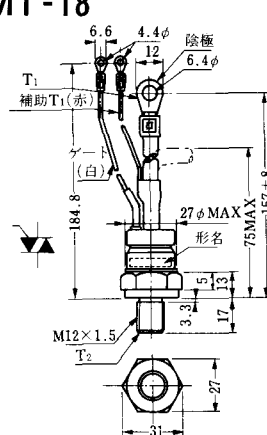
MT-16



MT-17



MT-18



MT-19



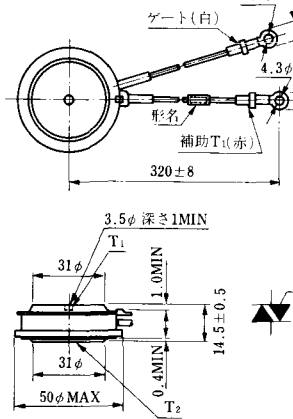
MT-20



MT-21



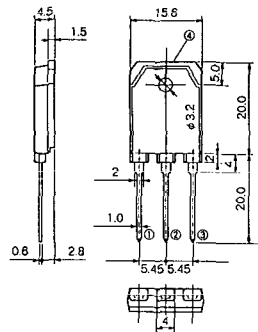
MT-22



MT-23



MT-24



TO-3P

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

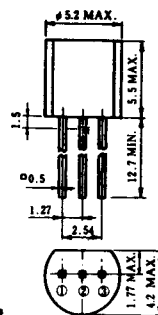
N-1



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

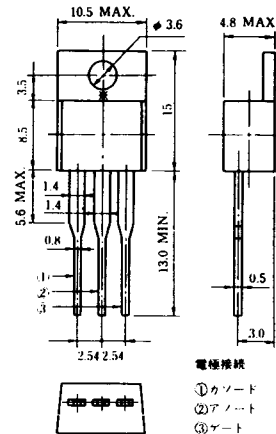
N-3



電極接続

- ① カソード
- ② アノード
- ③ ゲート

N-4



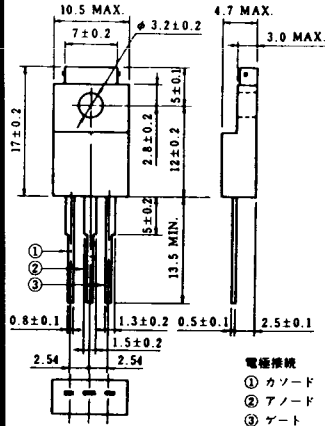
電極接続

- ① カソード
- ② アノード
- ③ ゲート

N-5



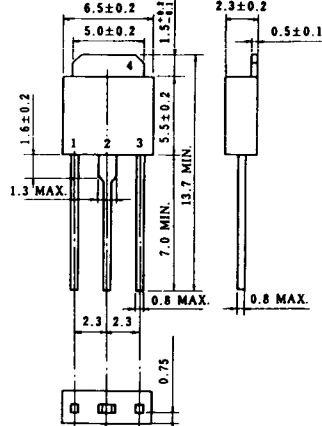
N-6



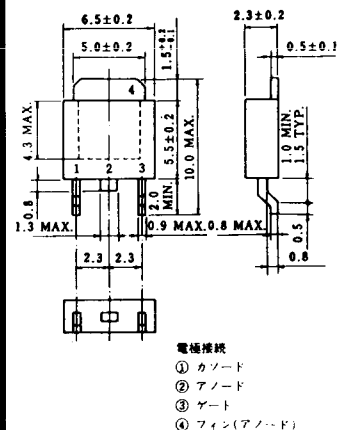
電極接続

- 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



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



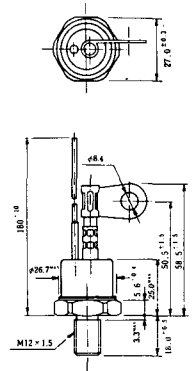
308RP, 408RP, 508RP, 278RS,
358RS, 258RT, 258RLD, 258RLG,
258RLH, 308RLE, 308RLF,
358RLE



89RW^rJL
129RW^rJL



89RW
129RW



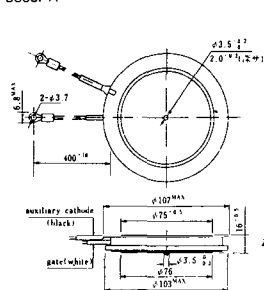
NI-16

503PLF
503PLH



NI-17

3003PA



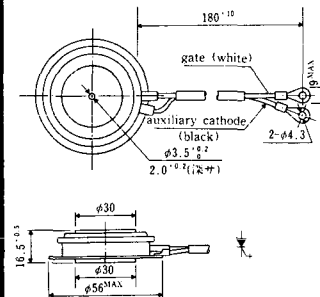
NI-18

353PGA「E



NI-19

603PGA, 603PGA「A, 803PGA



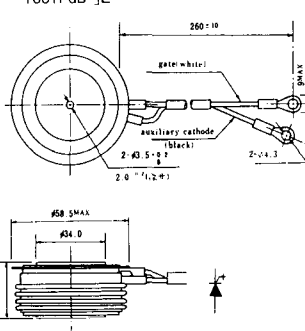
NI-20

603PGA「E



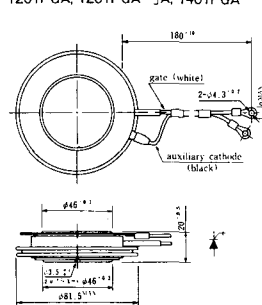
NI-21

1001PGB「E



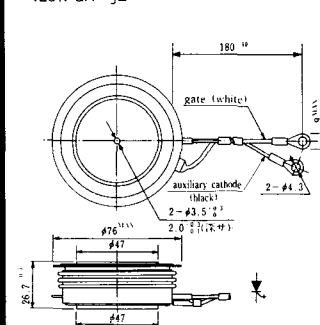
NI-22

1201PGA, 1201PGA「A, 1401PGA



NI-23

1201PGA「E



NI-24

2001PGB[®] 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



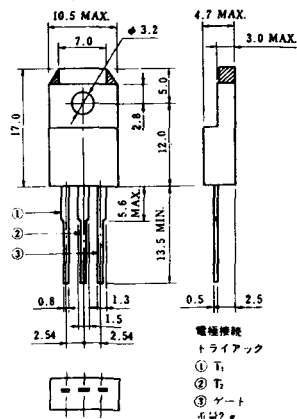
電極接続
①T₁
②T₂
③ゲート

NT-4



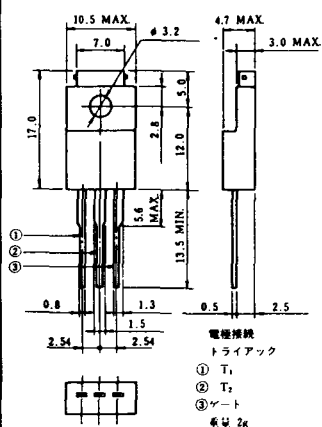
電極接続
①T₁
②T₂
③G

NT-5



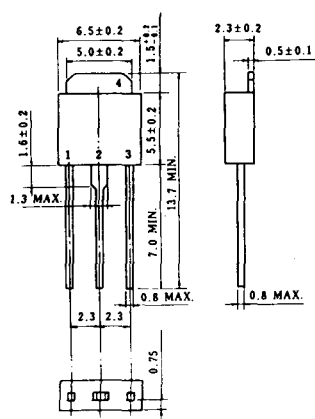
電極接続
トライアック
①T₁
②T₂
③ゲート
※2g

NT-6

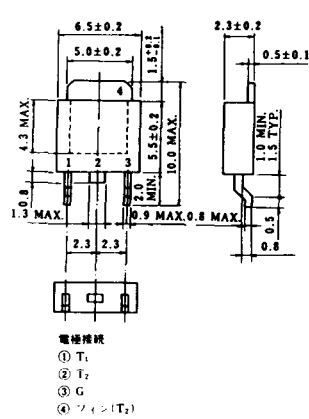


電極接続
トライアック
①T₁
②T₂
③ゲート
※2g

NT-7



NT-8

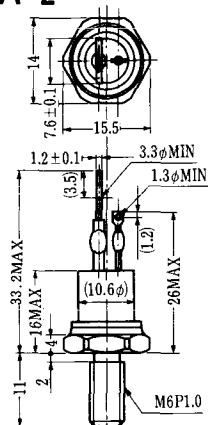


電極接続
①T₁
②T₂
③G
④フィイン(T₂)

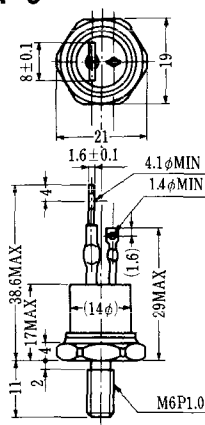
SA-1



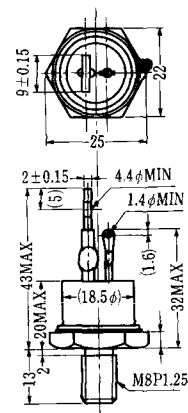
SA-2



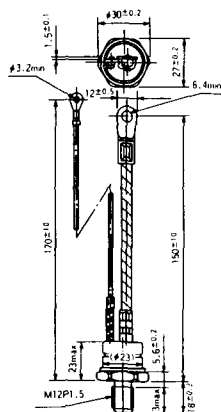
SA-3



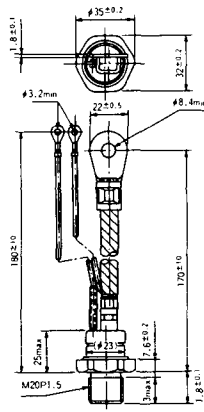
SA-4



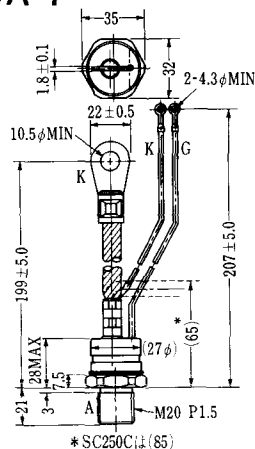
SA-5



SA-6

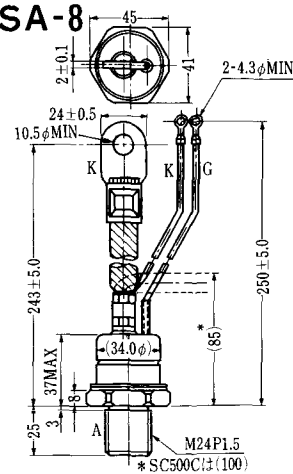


SA-7



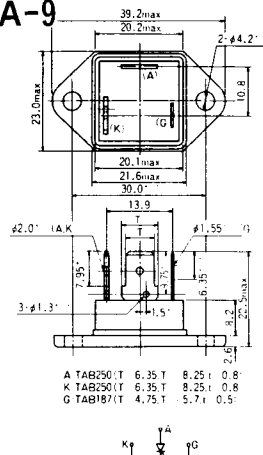
* SC250C (1/85)

SA-8

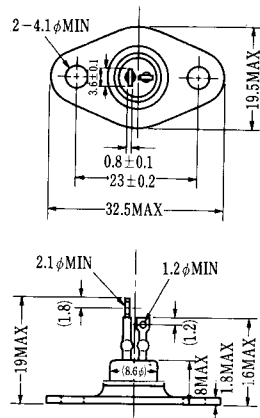


* SC500C (1/100)

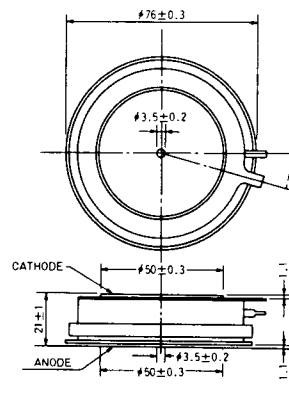
SA-9



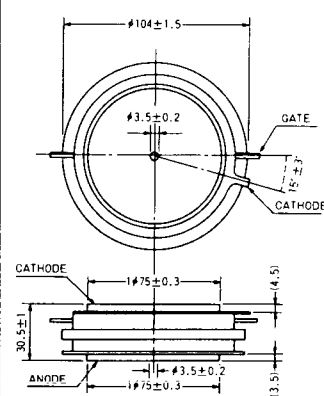
SA-10



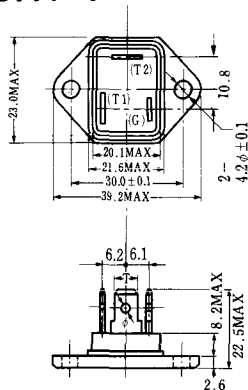
SA-11



SA-12



SAT-1

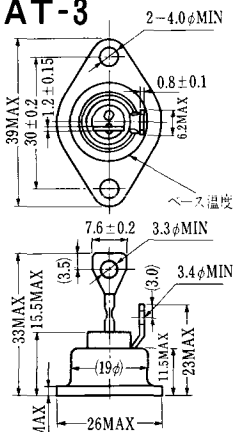


T1端子:ファストン250($T=6.35$, $t=0.8$, $\phi=1.65$)
T2端子:ファストン250($T=6.35$, $t=0.8$, $\phi=1.65$)
G端子:ファストン187($T=4.75$, $t=0.5$, $\phi=1.3$)

SAT-2



SAT-3



SAT-4



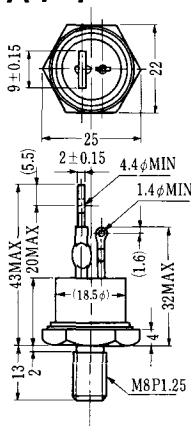
SAT-5



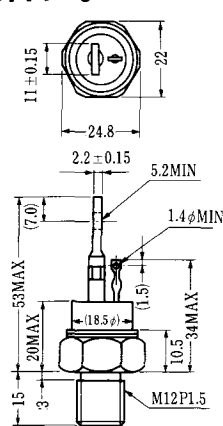
SAT-6



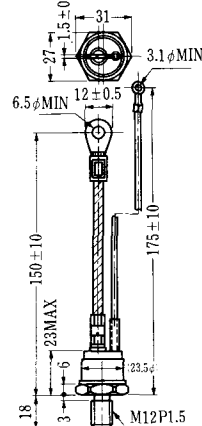
SAT-7



SAT-8



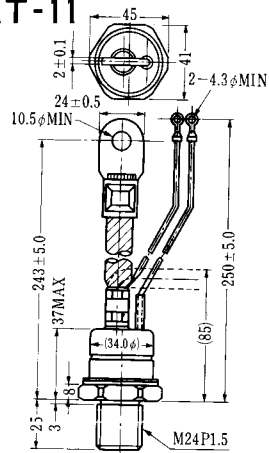
SAT-9.



SAT-10



SAT-11



SY-1(1096A)



SY-2(1151)



SY-3(1104)



SY-4(1150)



1097A

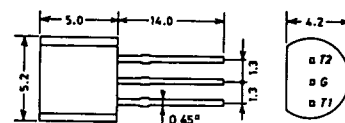


G: Gate

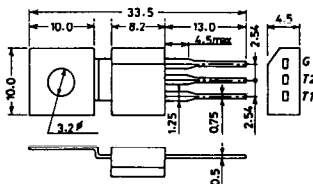
1102



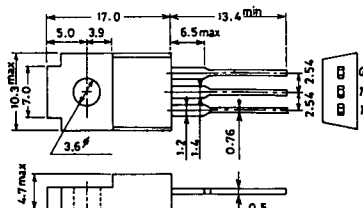
1141



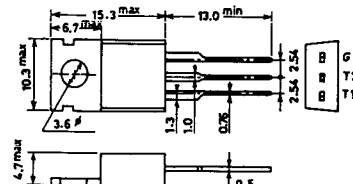
1142



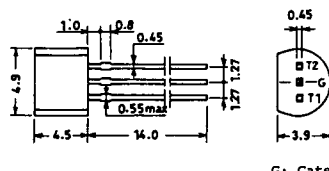
1144



1155

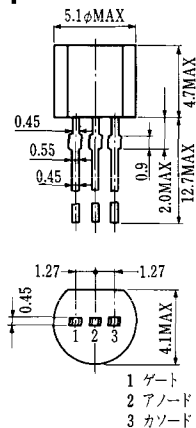


1192A

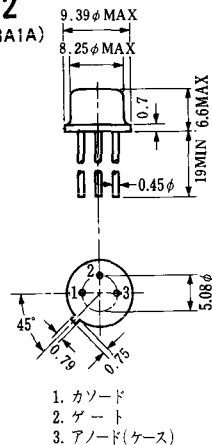


G: Gate

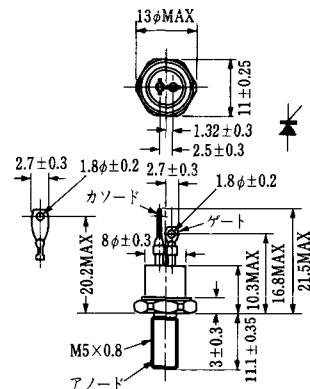
T-1 (13-5A1A)



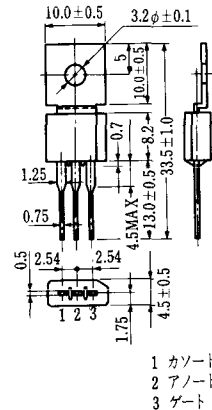
T-2 (13-8A1A)



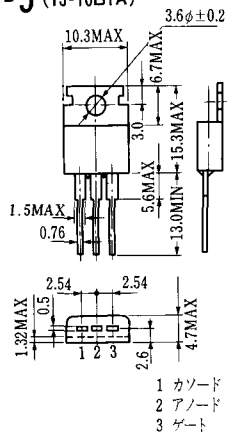
T-3 (13-8C1A)



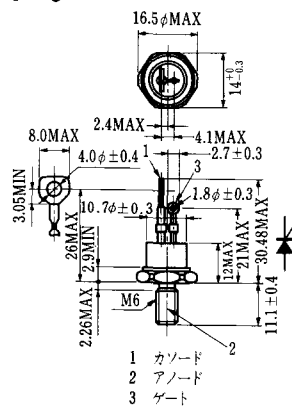
T-4 (13-10A1A)



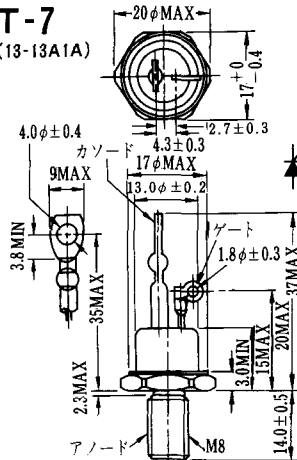
T-5 (13-10B1A)



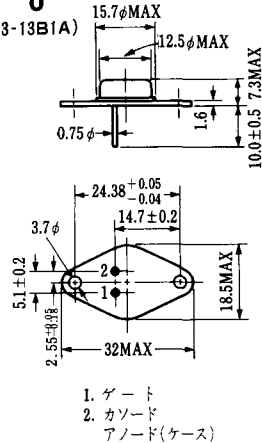
T-6 (13-11D1A)



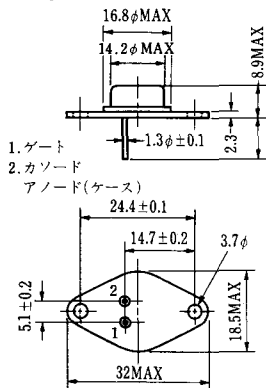
T-7 (13-13A1A)



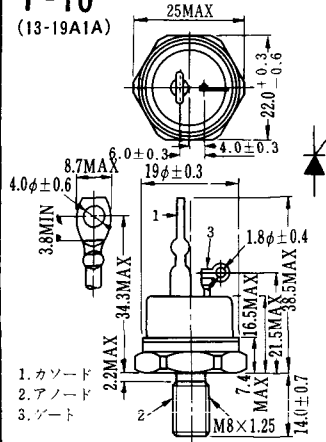
T-8 (13-13B1A)



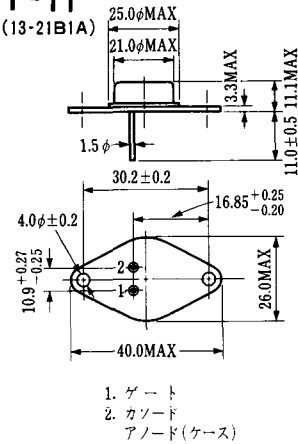
T-9 (13-14A1A)



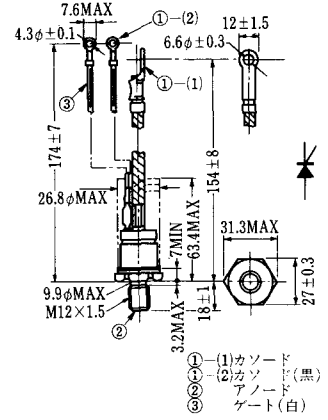
T-10 (13-19A1A)



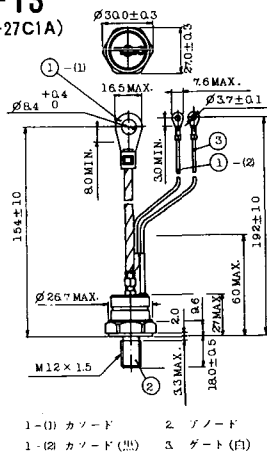
T-11 (13-21B1A)



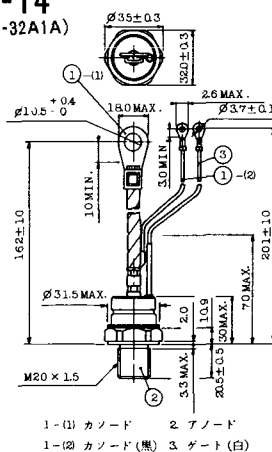
T-12 (13-27B1B)



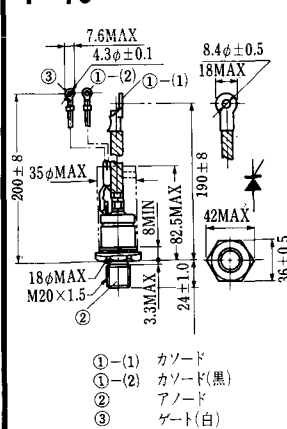
T-13 (13-27C1A)



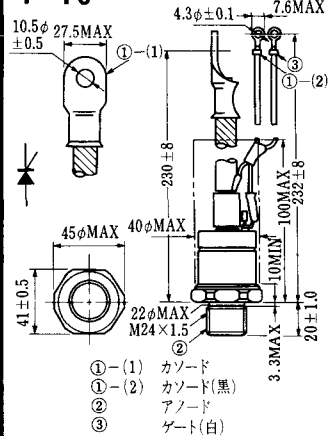
T-14 (13-32A1A)



T-15 (13-35C1B)



T-16 (13-40B1A)



T-17 (13-42A1A)



T-18 (13-45D1A)



T-19 (13-52B1A)



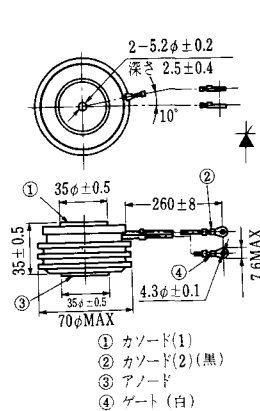
T-20 (13-52C1A)



T-21 (13-60A1A)



T-22 (13-70C1A)



T-23 (13-78A1A)



T-24 (13-100C1A)



T-25 (13-120A2A)



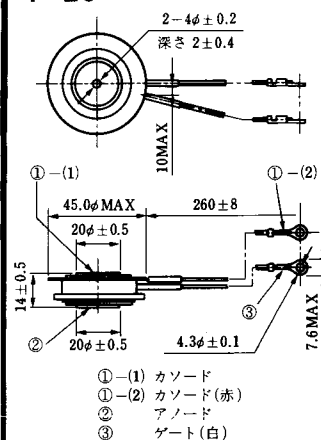
T-26 (13-150A1A)



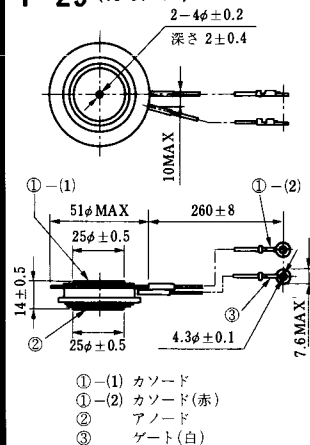
T-27 (13-37A1A)



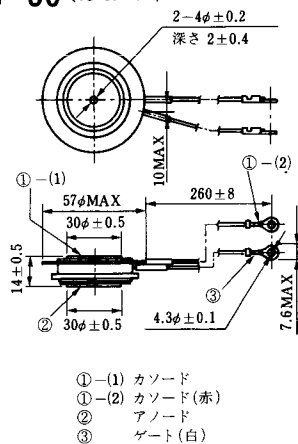
T-28 (13-45E1A)



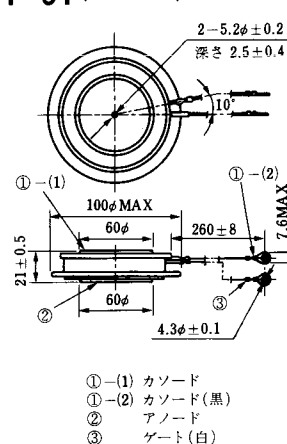
T-29 (13-51A1A)



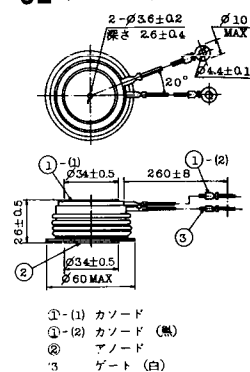
T-30 (13-57A1A)



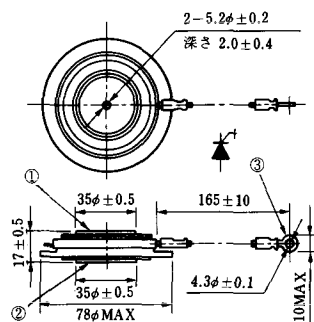
T-31 (13-100E1A)



T-32 (13-60E3A)

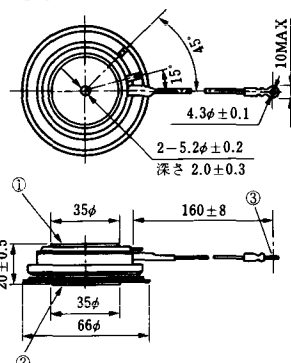


T-33 (13-78B1A)



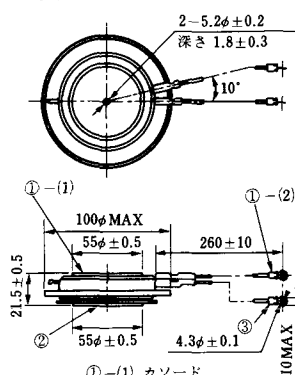
- ① カソード
- ② アノード
- ③ ゲート

T-34 (13-66A1A)



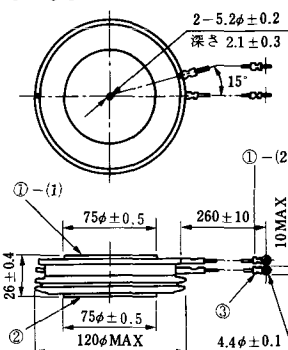
- ① カソード
- ② アノード
- ③ ゲート

T-35 (13-100D1A)



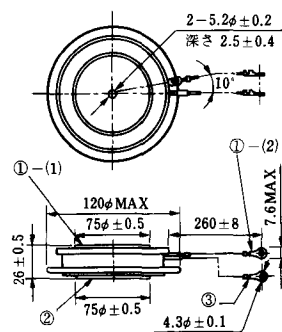
- ①-(1) カソード
- ①-(2) カソード(黒)
- ② アノード
- ③ ゲート(白)

T-36 (13-120E1A)



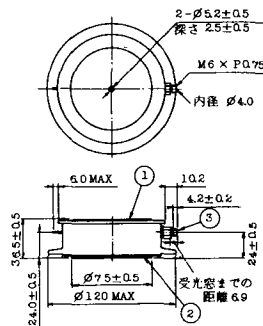
- ①-(1) カソード
- ①-(2) カソード(黒)
- ② アノード
- ③ ゲート(白)

T-37 (13-120A1A)



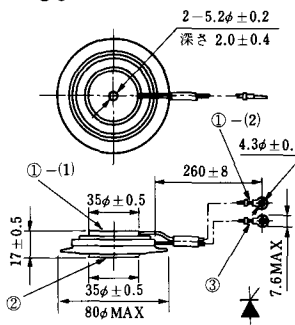
- ①-(1) カソード
- ①-(2) カソード(黒)
- ② アノード
- ③ ゲート(白)

T-38 (13-120C1A)



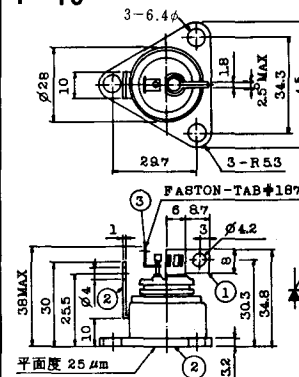
- ① カソード
- ② アノード
- ③ ゲート

T-39 (13-80B1A)



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

T-40 (13-28A1A)



- 1. カソード
- 2. アノード
- 3. ゲート

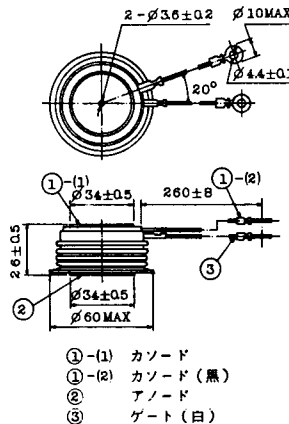
T-41 (13-28A2A)



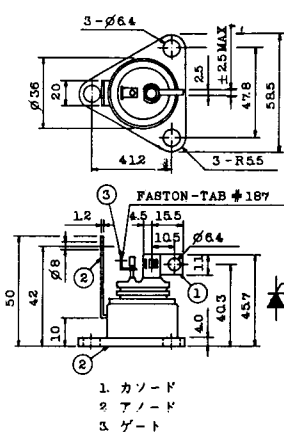
T-42 (13-45F1A)



T-43 (13-60E2A)



T-44 (13-36A1A)



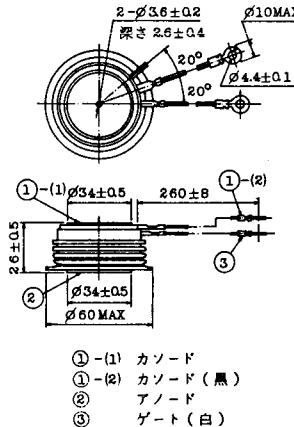
T-45 (13-51B1A)



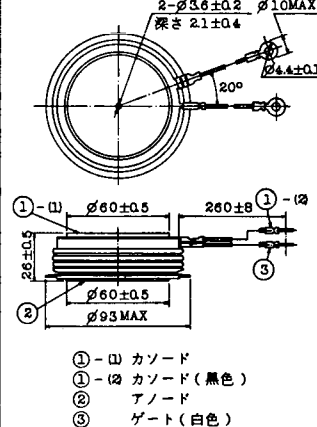
T-46 (13-36B1A)



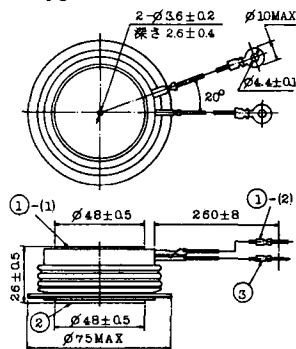
T-47 (13-60E1A)



T-48 (13-93C1A)

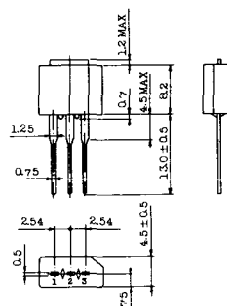


T-49 (13-75A1A)



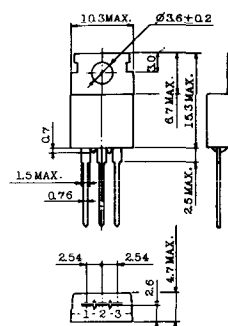
- 1-(1) カソード
- 1-(2) カソード (黒)
- 2 アノード
- 3 ゲート (白)

T-50 (13-10A3A)



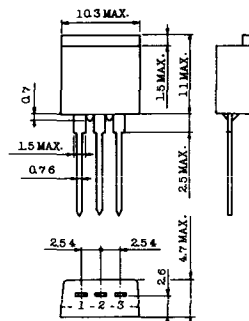
- 1 カソード
- 2 アノード
- 3 ゲート

T-51 (13-10D1A)



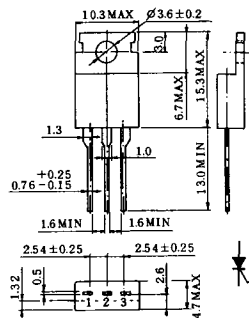
- 1 カソード
- 2 アノード
- 3 ゲート

T-52 (13-10D2A)



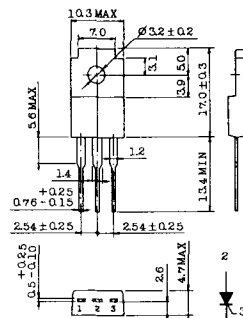
- 1 カソード
- 2 アノード
- 3 ゲート

T-53 (13-10E1B)



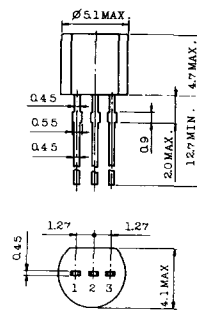
- 1 カソード
- 2 アノード
- 3 ゲート

T-54 (13-10F1B)



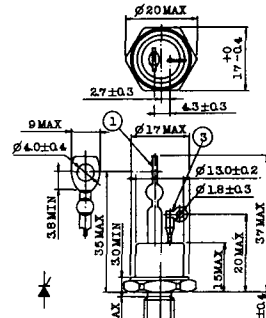
- 1 カソード
- 2 アノード
- 3 ゲート

T-55 (13-5A1D)



- 1 カソード
- 2 ゲート
- 3 アノード

T-56 (13-13C1A)

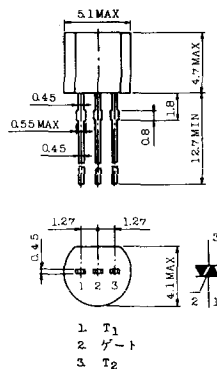


- 1 カソード
- 2 アノード
- 3 ゲート

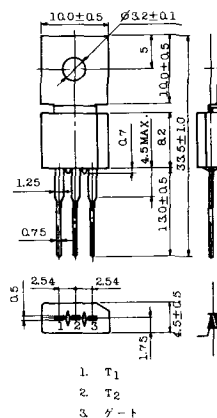
TT-1



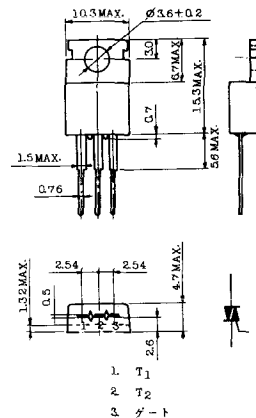
TT-2



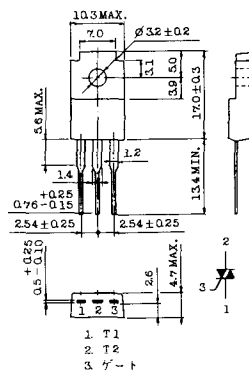
TT-3



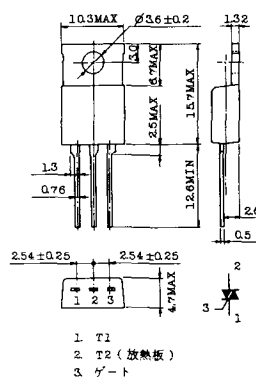
TT-4



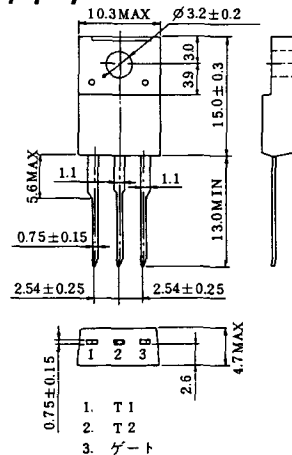
TT-5



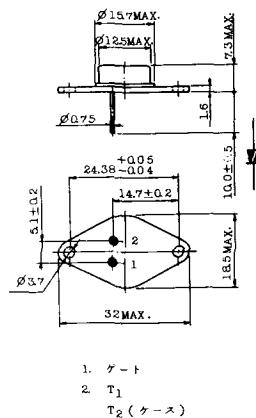
TT-6



TT-7



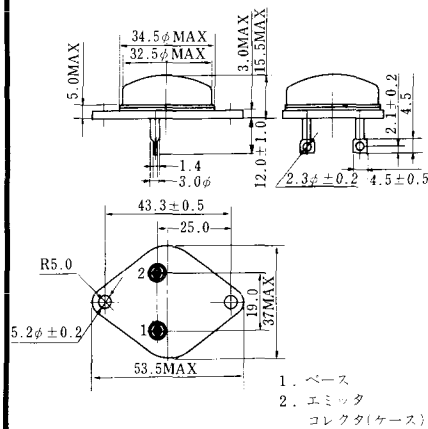
TT-8



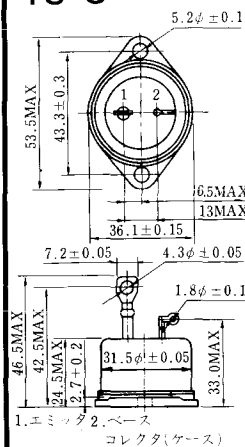
TS-1



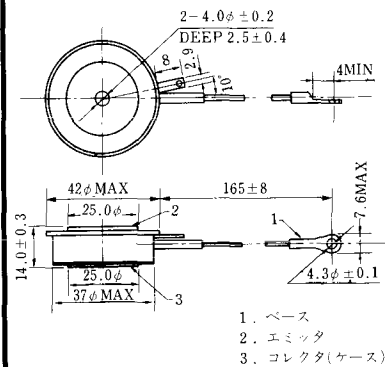
TS-2



TS-3



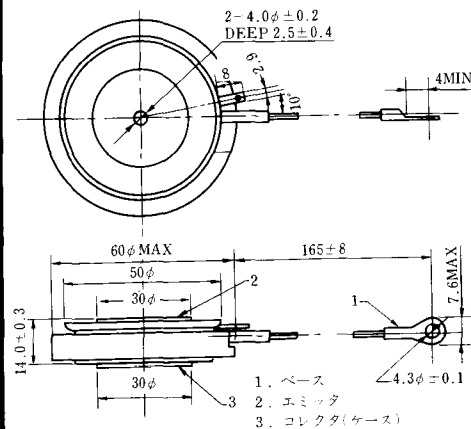
TS-4



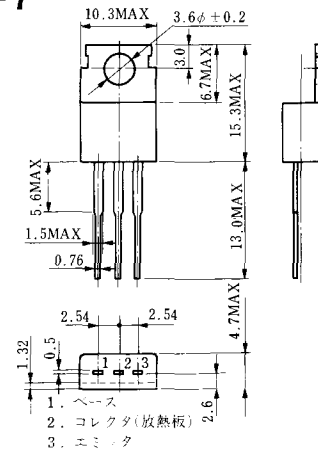
TS-5

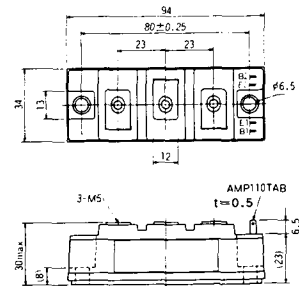
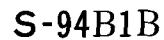
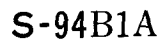


TS-6

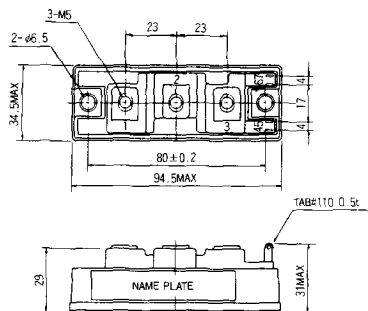


TS-7

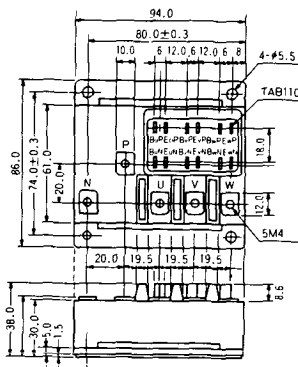




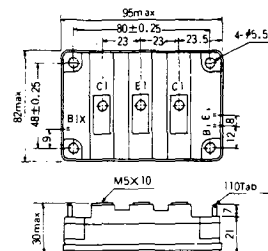
S-94B2A



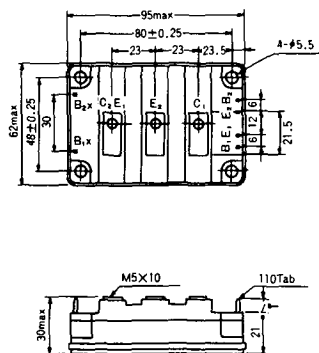
S-94D1A



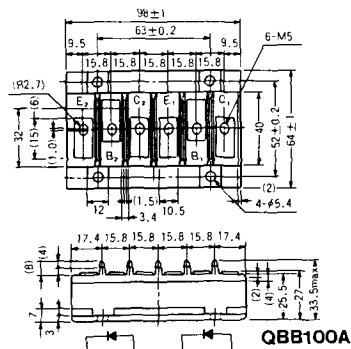
S-95A1A



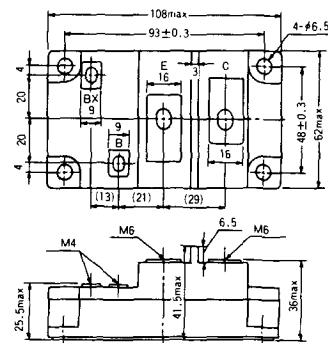
S-95B1A



S-98B1B



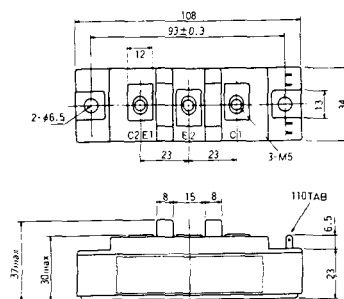
S-108A2A



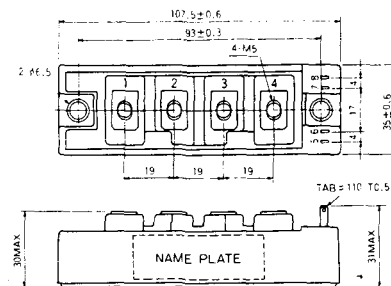
S-108B1A



S-108B1B



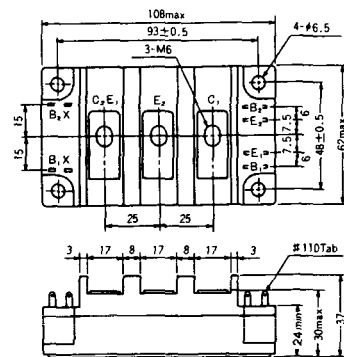
S-108B1C



S-108B2A



S-108B2B



2-22B1A



2-27A4A



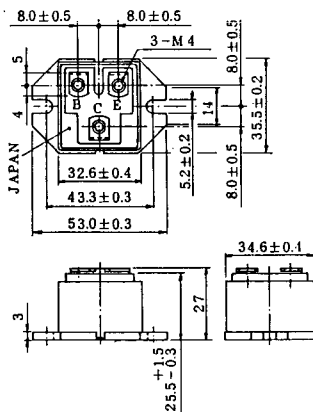
2-33C1A



2-33D1A



2-33F1A



2-37A1A



2-48A3A



2-48A3B



2-48A4A



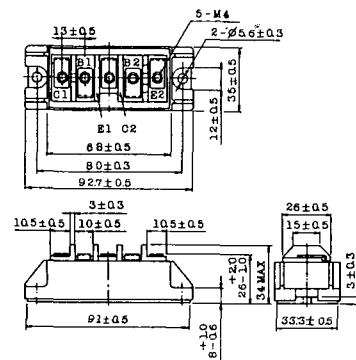
2-64A2A



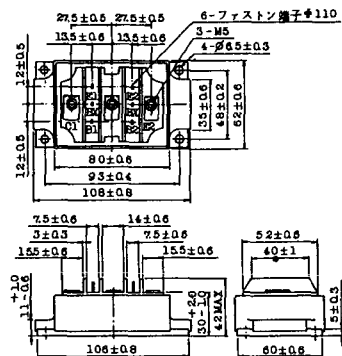
2-64A2B



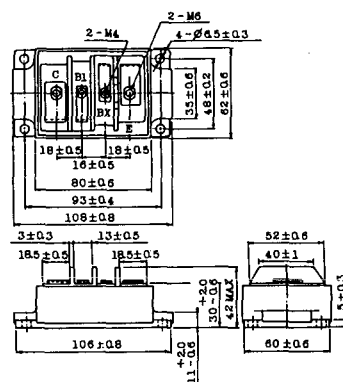
2-68A2A



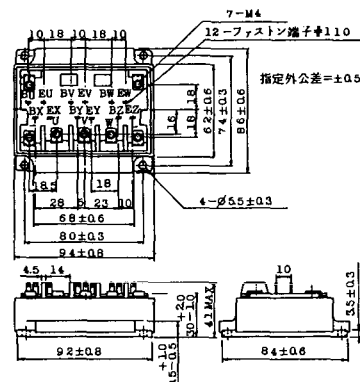
2-80C1A



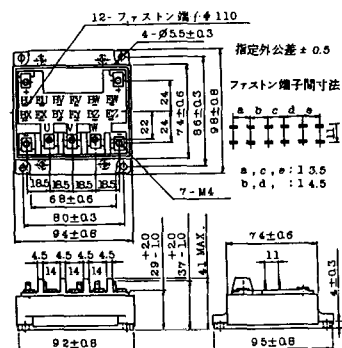
2-80D2A



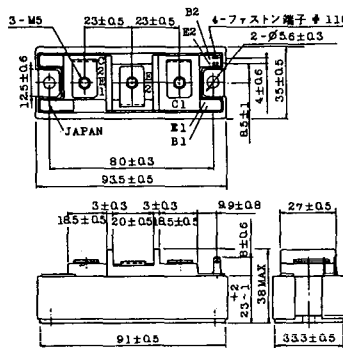
2-94A2A



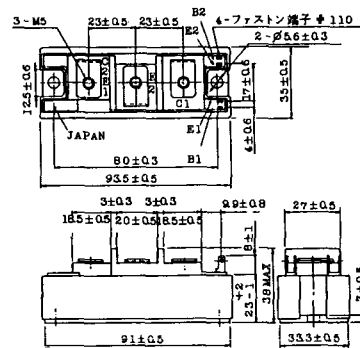
2-94B1A



2-94C2A



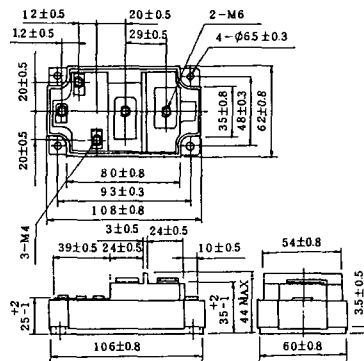
2-94C3A



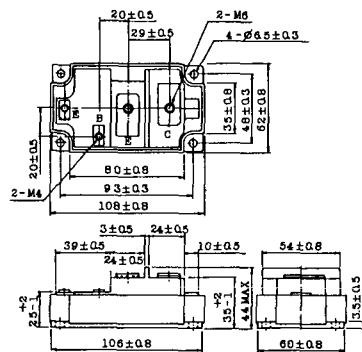
2-108B1A



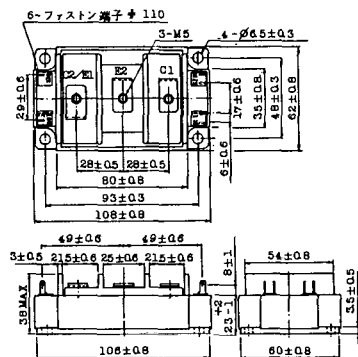
2-109A3A



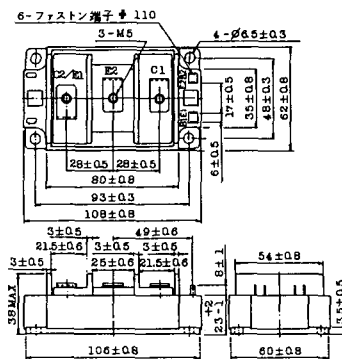
2-109A4A



2-109B3A



2-109B4A



BBT-II

BBTII
1D200A-020



BBT-III

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



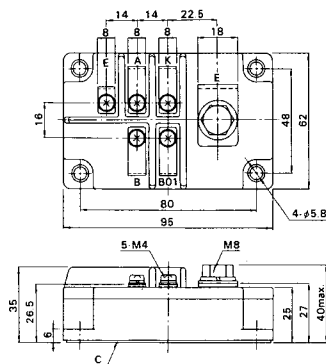
BBT-III

BBTIII
ETN01-055
ET1257

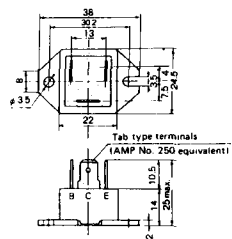


BBT-IV

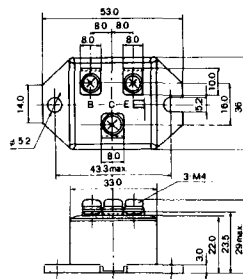
BBTIV
1D500A-030



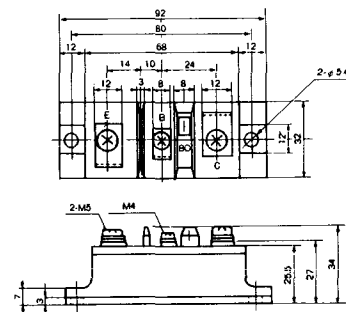
M-101



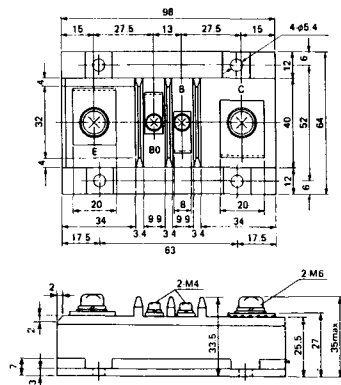
M-102



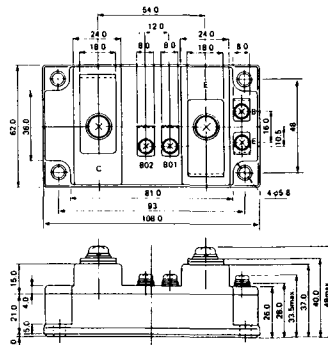
M-103



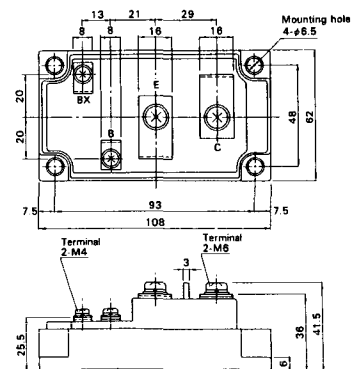
M-104



M-105



M-106



M-107



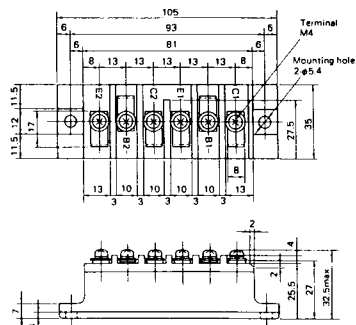
M-116



M-201



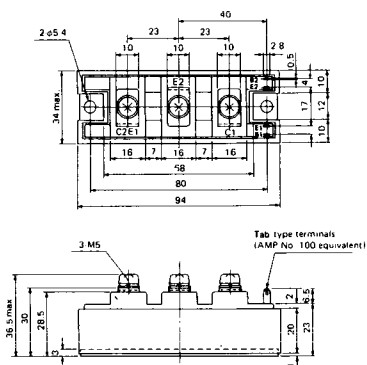
M-202



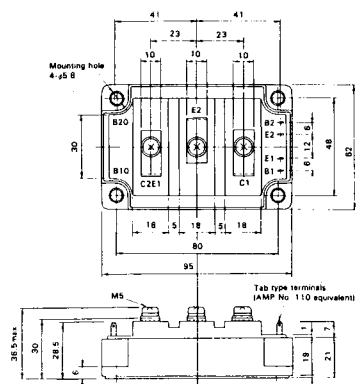
M-203



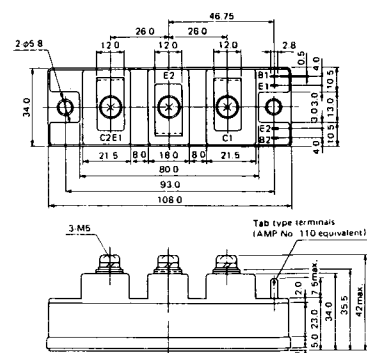
M-204



M-205



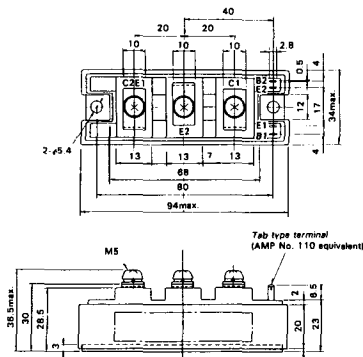
M-206



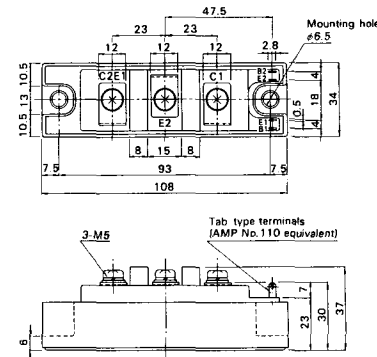
M-207



M-208



M-209



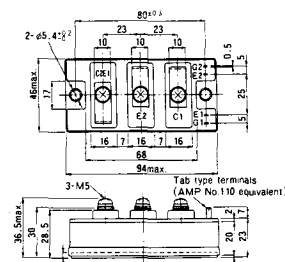
M-210



M-211



M-212



M-213



M-214

M-215



M-216



M-217



M-218



M-601



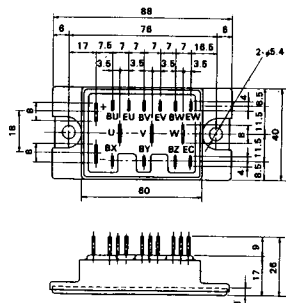
M-602



M-603



M-604



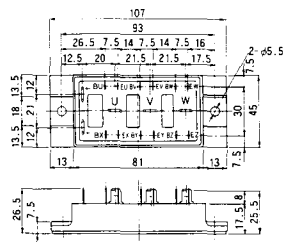
M-605



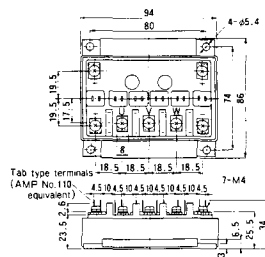
M-606



M-607



M-608



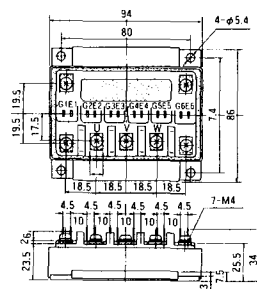
M-609



M-610



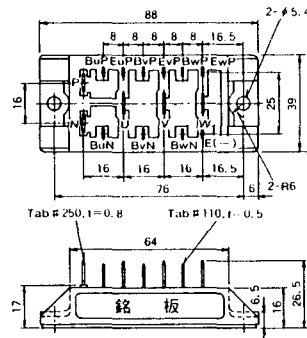
M-616



M-2E6A



M-2F6A



M-2G6A



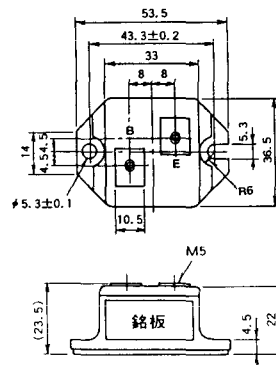
M-3A1A



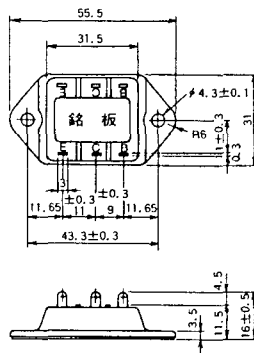
M-3B1A



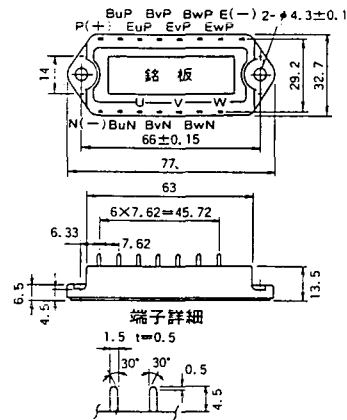
M-3B1B



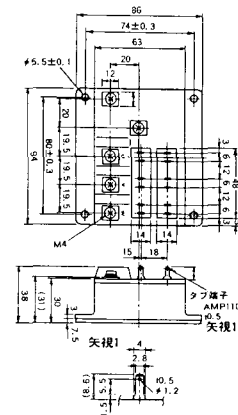
M-3C1A



M-3D6A



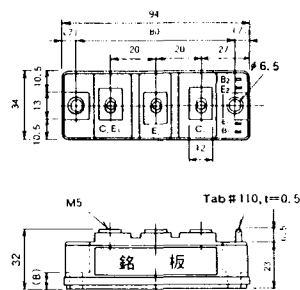
M-3E6A



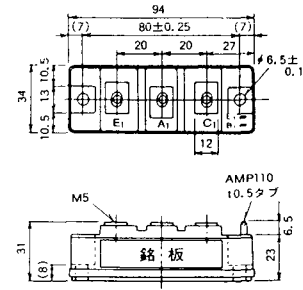
M-4A1A



M-4A2A



M-4A1B



M-4A2B



M-4B2A



M-5A1A



M-5A1B



M-5A2A



M-5B2A



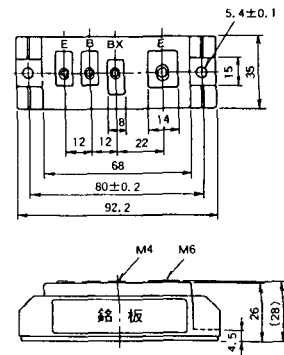
M-5C2A



M-5D2A



M-6A1A



M-7A1A



M-7B1A



M-8A1A



M-8A1B



M-8A2A



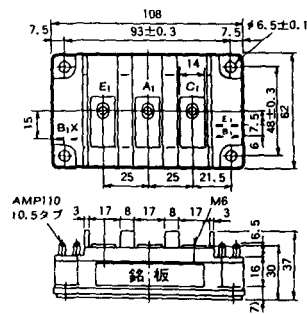
M-8A2B



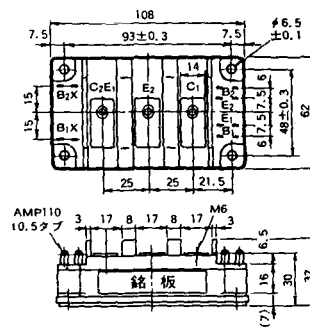
M-8B2A



M-9A1A



M-9A2A



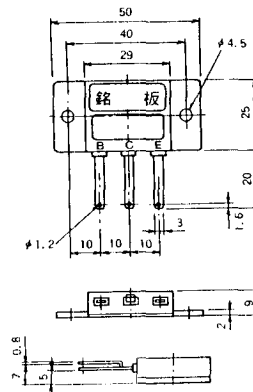
M-9B1A



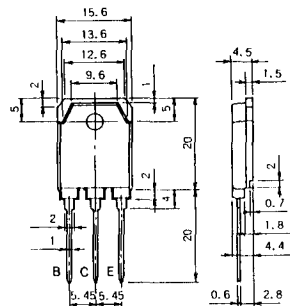
M-9C2A



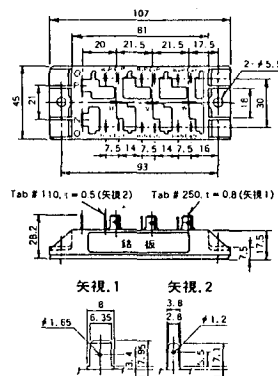
M-1A1B



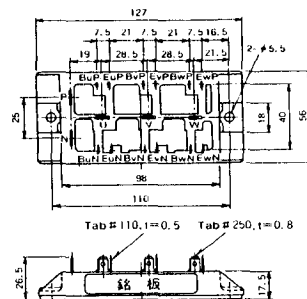
M-1A1C



M-2E6B



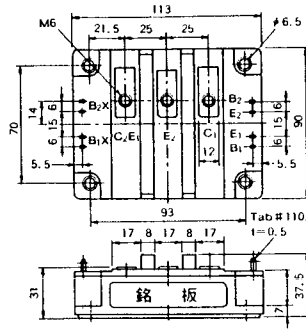
M-2E6C



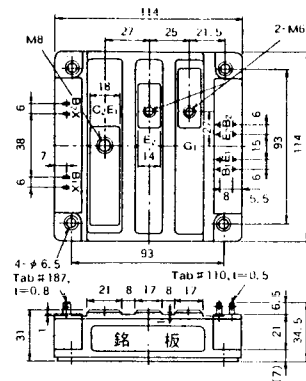
M-10A2A



M-10A2B



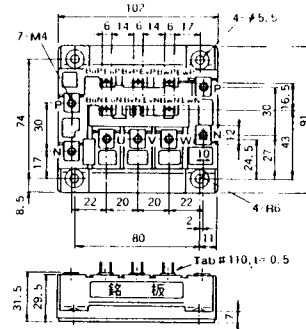
M-11A2A



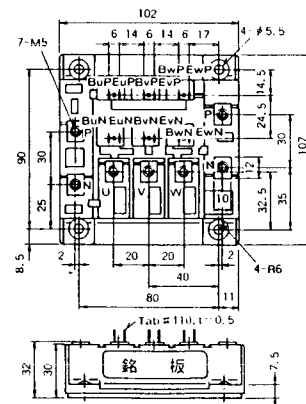
M-12A6A



M-12B6A



M-12B6B



M-4A2D



M-4A2E



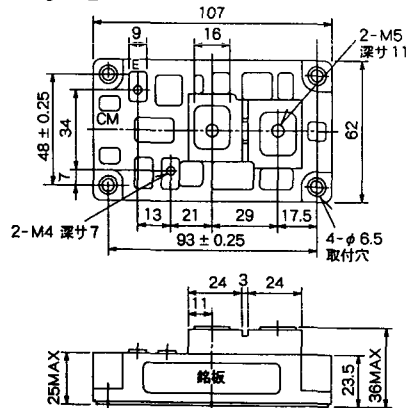
M-4C2A



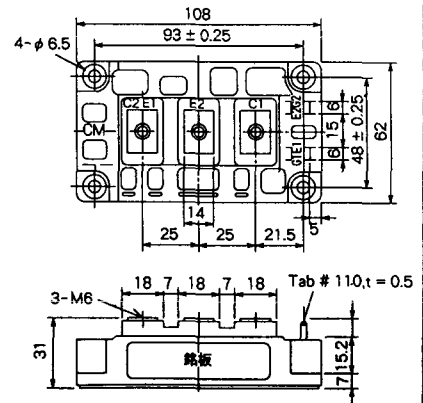
M-4C2B



M-9B1C



M-9D2A



M-9D2B



M-10A2C



H-101



Weight :480g

TERMINALS

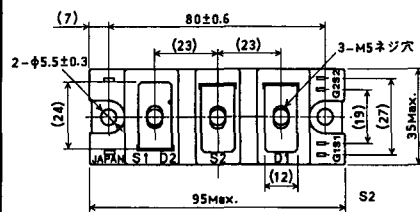
H-201



H-202



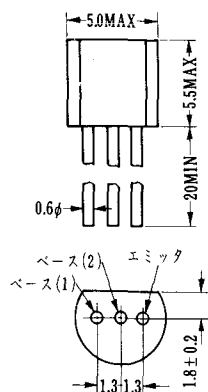
LF-J



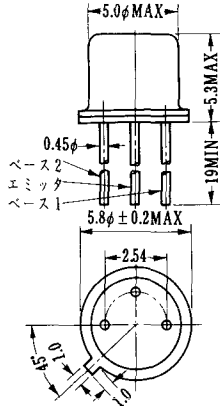
LF-K



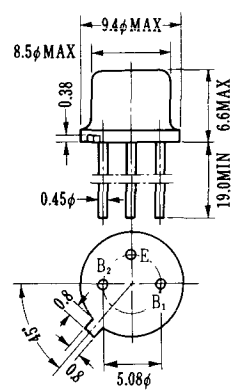
U-1



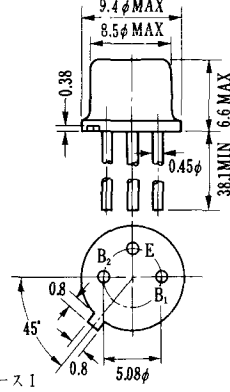
U-2



U-3



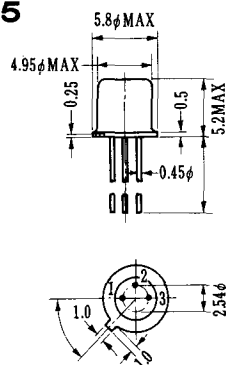
U-4



電極接続

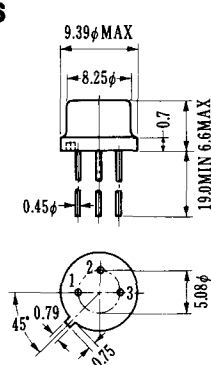
B₁: ベース1
B₂: ベース2
E: エミッタ

U-5



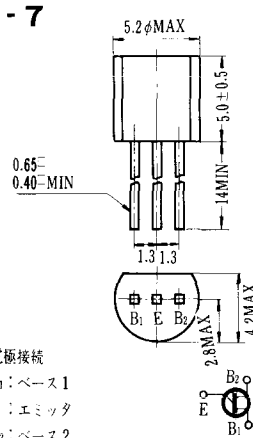
1. BASE1
2. EMITTER
3. BASE2 (CASE)

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

