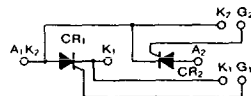


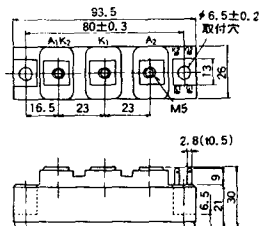
TM90DZ-24, -2H

- 高圧大電力一般用
- 絶縁形 (主端子〜ケース間 2500V)

■接続図



■外形図



■最大定格

記号	TM90DZ-24	TM90DZ-2H	単位
V_{RSM}	1350	1700	V
V_{RRM}	1200	1600	V
V_{DRM}	1200	1600	V
I_{TAV}	90 (単相半波, $T_J=82^\circ\text{C}$)		A
$I_{T(RMS)}$	140		A
I_{TSM}	1800 (50Hz/60Hz, 正弦半波1サイクル波高値)		A
$I^2 \cdot t$	1.5×10^4		A ² S
di/dt	100 ($T_J=125^\circ\text{C}$, $V_D = \frac{1}{2} V_{DRM}$)		A/ μs
P_{GM}	5		W
P_{GAV}	0.5		W
V_{GEM}	5		V
I_{GEM}	2		A
T_J	-40 ~ +125		$^\circ\text{C}$
T_{HL}	-40 ~ +125		$^\circ\text{C}$

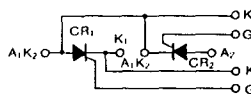
■電気的特性

記号	測定条件	最小	標準	最大	単位
I_{RRM}	$T_J=125^\circ\text{C}$, $V_D=V_{RRM}$			15	mA
I_{DRM}	$T_J=125^\circ\text{C}$, $V_D=V_{DRM}$			15	mA
V_{TM}	$T_J=125^\circ\text{C}$, $I_{TM}=270\text{A}$			1.4	V
V_{GT}	$T_J=25^\circ\text{C}$, $V_D=6\text{V}$			2	V
I_{GT}	$R_{th}=2\Omega$			100	mA
V_{GD}	$T_J=125^\circ\text{C}$, $V_D=\frac{1}{2} V_{DRM}$	0.25			V
I_{GD}					mA
dv/dt	$T_J=125^\circ\text{C}$, $V_D=\frac{1}{2} V_{DRM}$	500			V/ μs
R_{th}	接合部〜ケース間			0.3	$^\circ\text{C}/\text{W}$

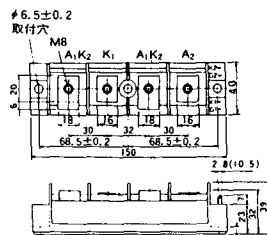
TM130DZ-M, -H

- 大電力一般用
- 絶縁形 (主端子〜ケース間 2000V)

■接続図



■外形図



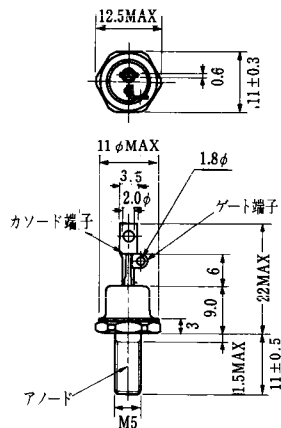
■最大定格

記号	TM130DZ-M	TM130DZ-H	単位
V_{RSM}	480	960	V
V_{RRM}	400	800	V
V_{DRM}	400	800	V
I_{TAV}	130 (単相半波, $T_J=85^\circ\text{C}$)		A
$I_{T(RMS)}$	205		A
I_{TSM}	2600 (50Hz/60Hz, 正弦半波1サイクル波高値)		A
$I^2 \cdot t$	28×10^3		A ² S
di/dt	100 ($T_J=125^\circ\text{C}$, $V_D = \frac{1}{2} V_{DRM}$)		A/ μs
P_{GM}	10		W
P_{GAV}	3		W
V_{GEM}	5		V
I_{GEM}	4		A
T_J	-40 ~ +125		$^\circ\text{C}$
T_{HL}	-40 ~ +125		$^\circ\text{C}$

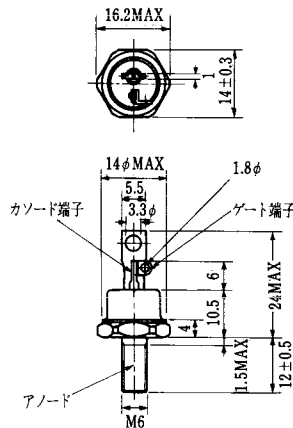
■電気的特性

記号	測定条件	最小	標準	最大	単位
I_{RRM}	$T_J=125^\circ\text{C}$, $V_D=V_{RRM}$			30	mA
I_{DRM}	$T_J=125^\circ\text{C}$, $V_D=V_{DRM}$			30	mA
V_{TM}	$T_J=125^\circ\text{C}$, $I_{TM}=390\text{A}$			1.3	V
V_{GT}	$T_J=25^\circ\text{C}$, $V_D=6\text{V}$			3	V
I_{GT}	$R_{th}=2\Omega$			100	mA
V_{GD}	$T_J=125^\circ\text{C}$, $V_D=\frac{1}{2} V_{DRM}$	0.25			V
I_{GD}					mA
dv/dt	$T_J=125^\circ\text{C}$, $V_D=\frac{1}{2} V_{DRM}$	500			V/ μs
R_{th}	接合部〜ケース間			0.22	$^\circ\text{C}/\text{W}$

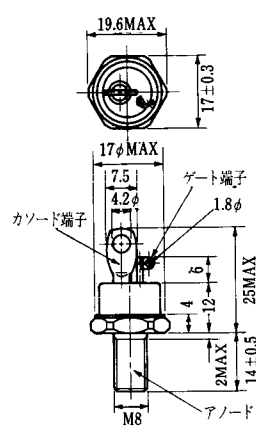
FD-1



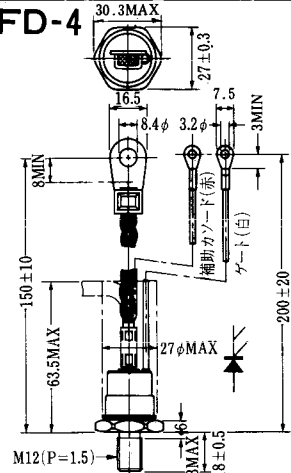
FD-2



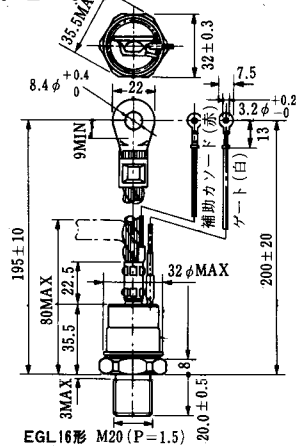
FD-3



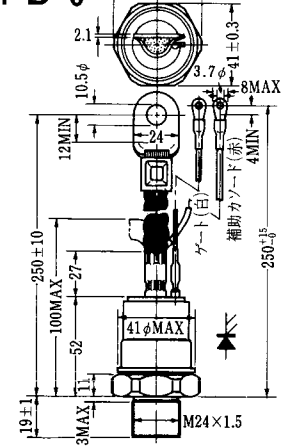
FD-4



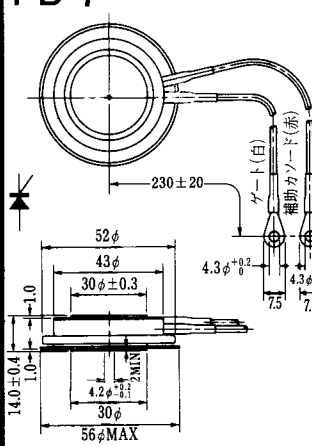
FD-5



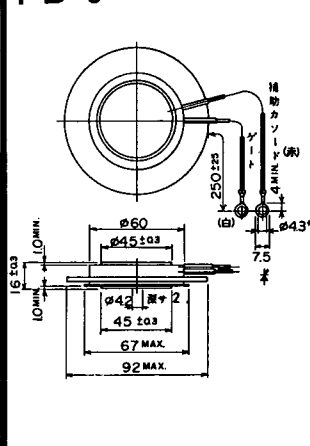
FD-6



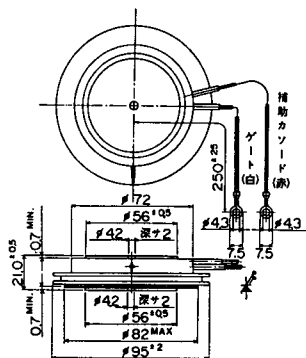
FD-7



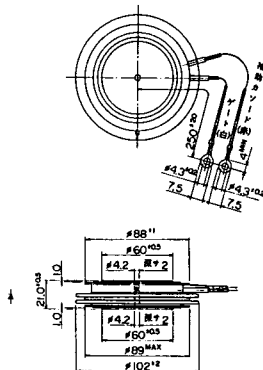
FD-8



FD-9

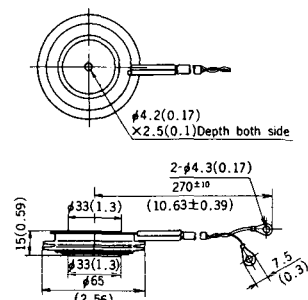
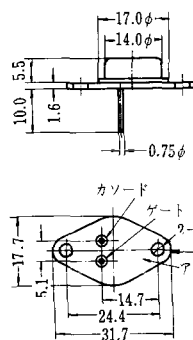
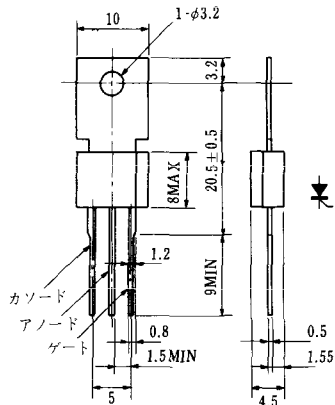


FD-10

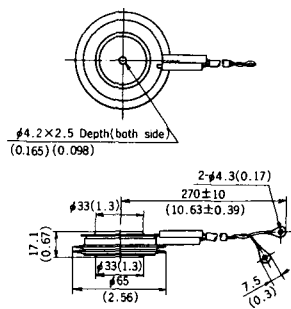


FD-11

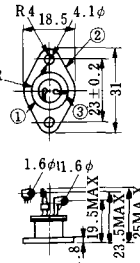
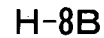
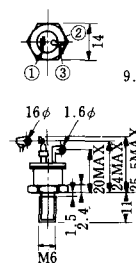
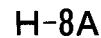
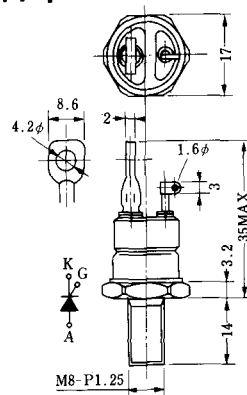
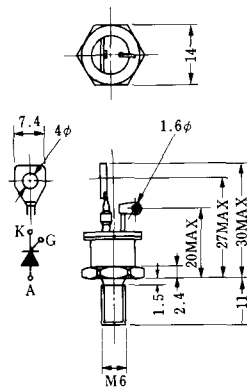
FD-12



Unit in mm(inch)

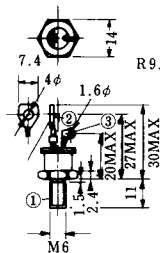


Unit in mm(inch)

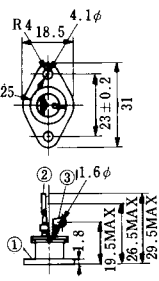


- ①アノード
②カソード
③ゲート

H-9A

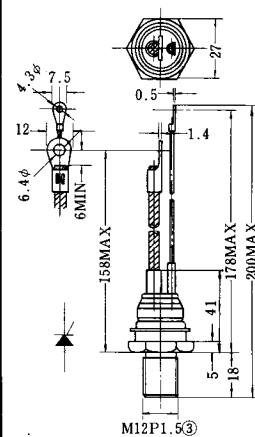


H-9B

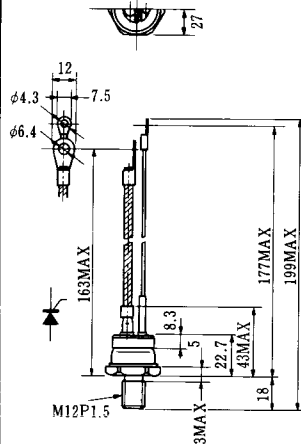


- ① アノード
- ② カソード
- ③ ゲート

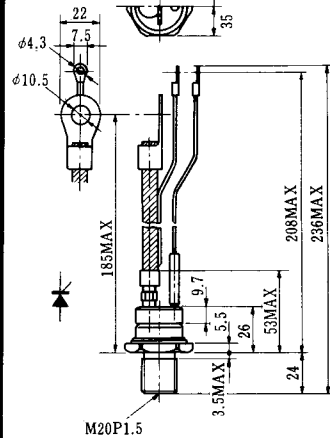
H-10



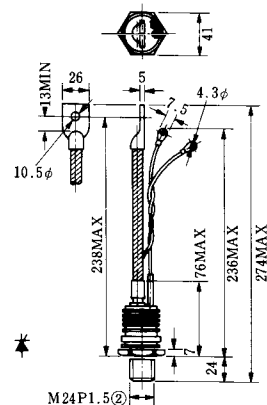
H-11



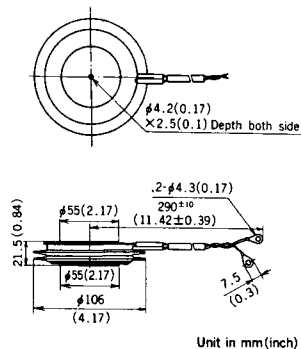
H-12



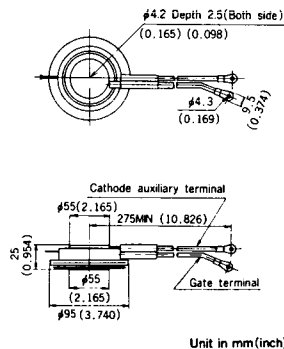
H-13



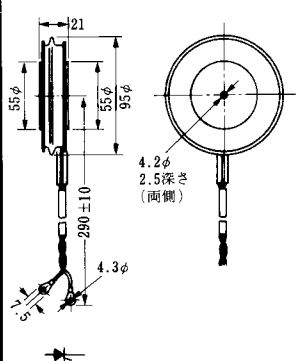
H-14



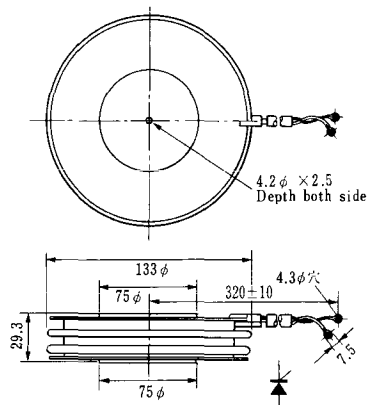
H-15



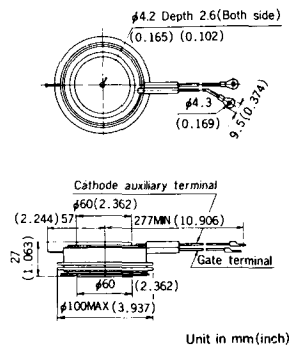
H-16



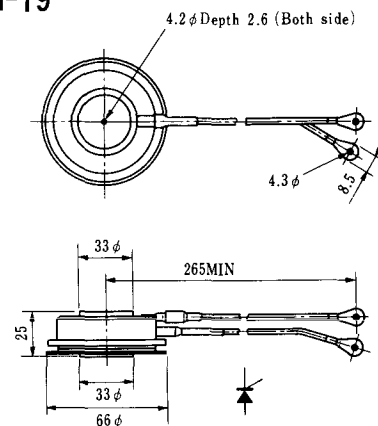
H-17



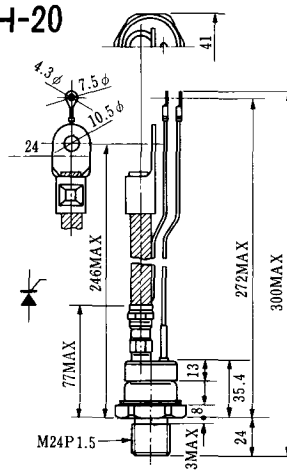
H-18



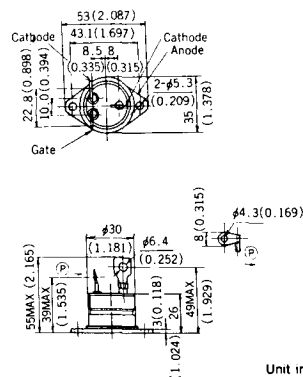
H-19



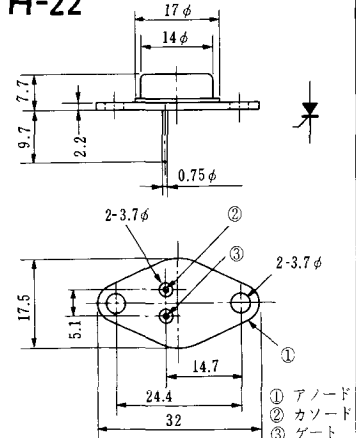
H-20



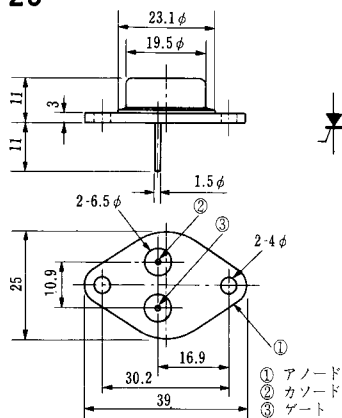
H-21



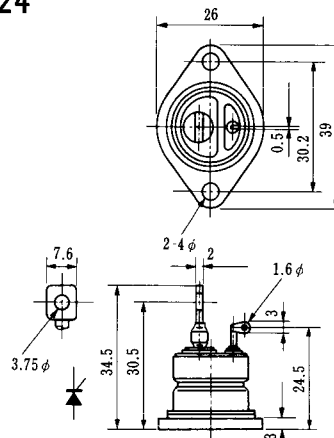
H-22



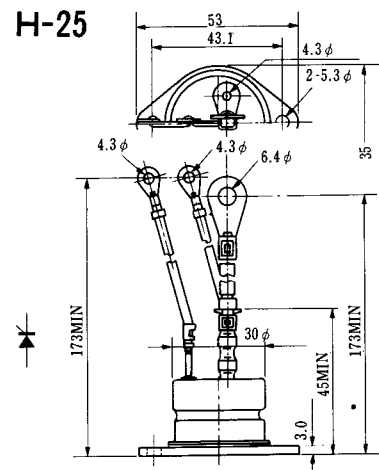
H-23



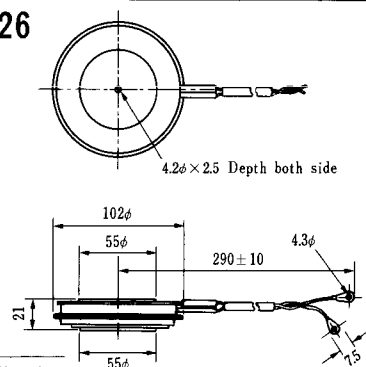
H-24



H-25

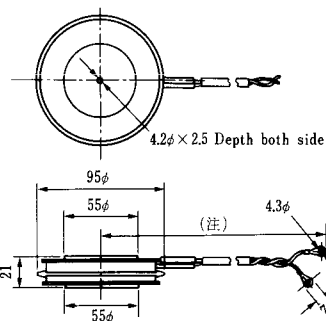


H-26



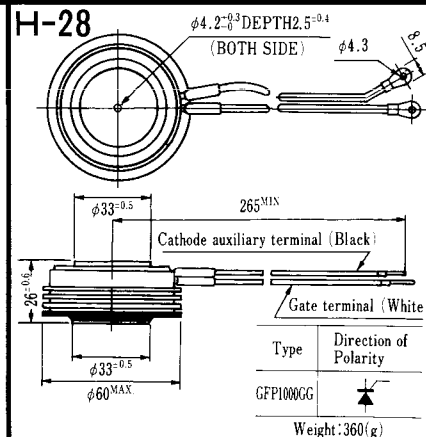
Type	Direction of polarity
CA12	

H-27



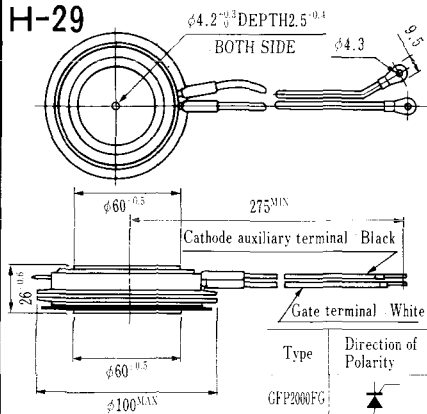
Type	Direction of polarity
CF11V	

H-28



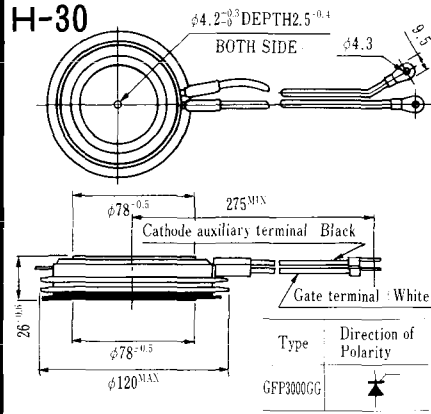
Note: The thickness is a dimension in press at the rated mounting force.

H-29



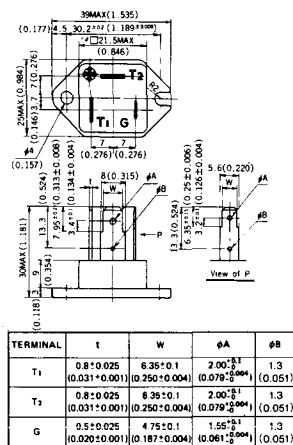
Note : The thickness is a dimension in press at the rated mounting force. Weight: 870(g)

H-30



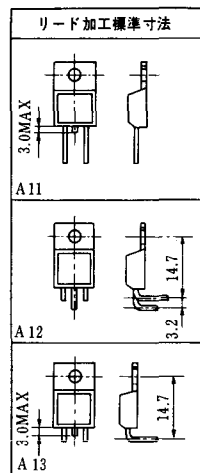
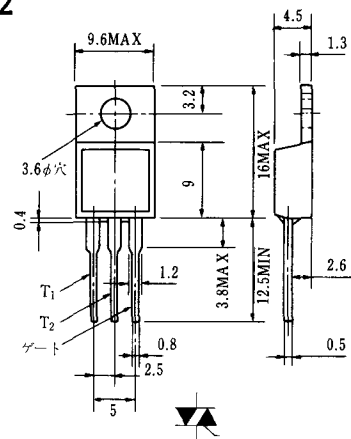
Note : The thickness is a dimension in press at the rated mounting force. Weight: 1,460(g)

HT-1

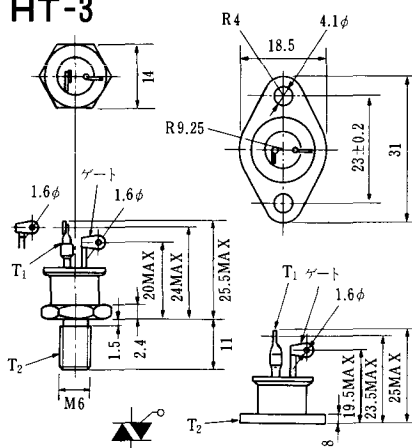


Unit in mm (inch)

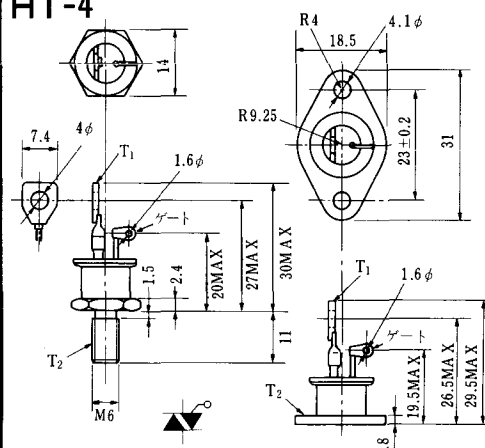
HT-2



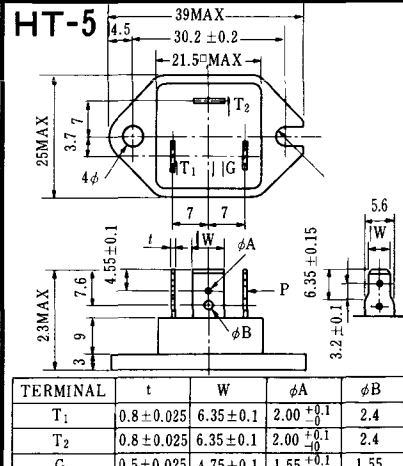
HT-3



HT-4

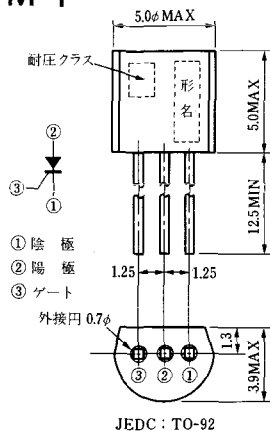


HT-5

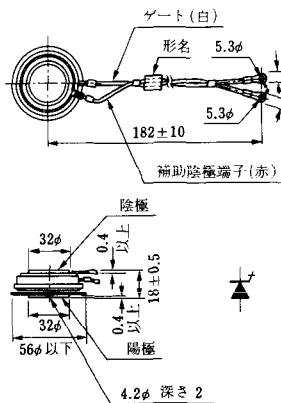


《寸法図単位：mm》

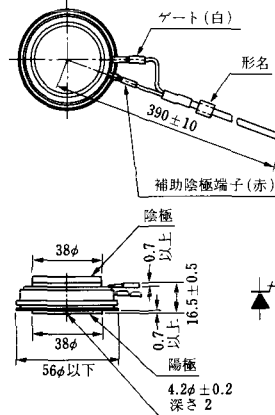
M-1



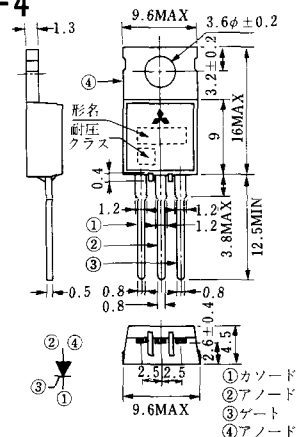
M-2



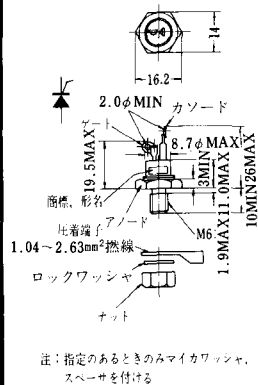
M-3



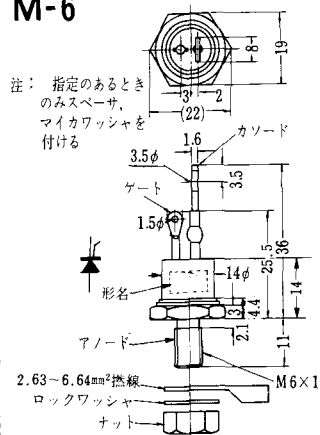
M-4



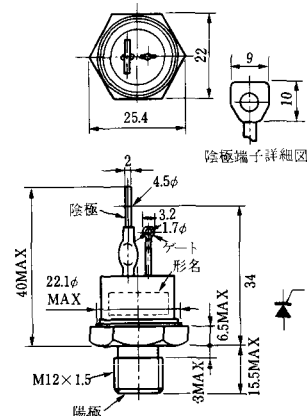
M-5



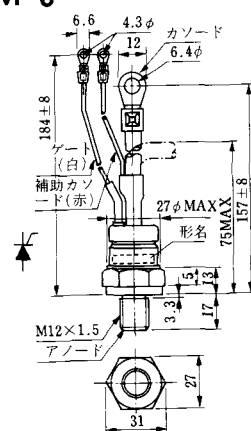
M-6



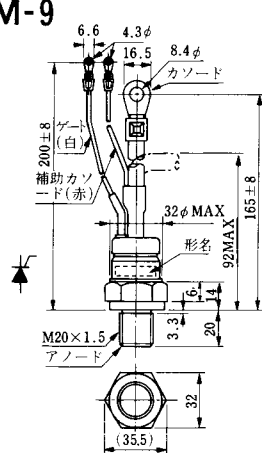
M-7



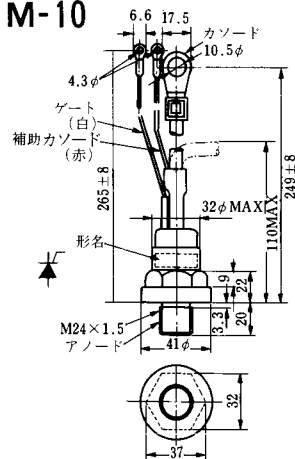
M-8



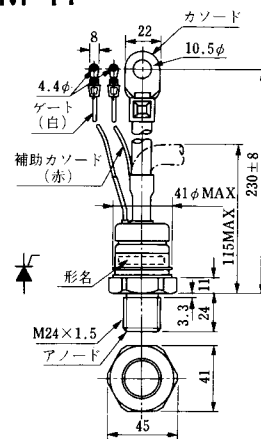
M-9



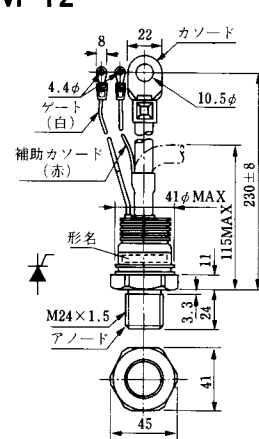
M-10



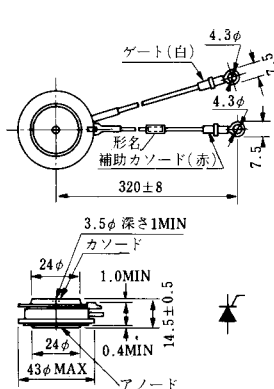
M-11



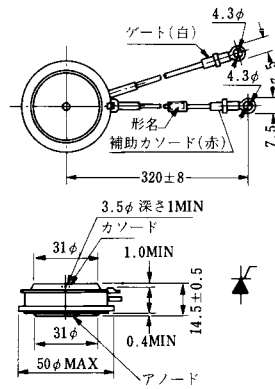
M-12



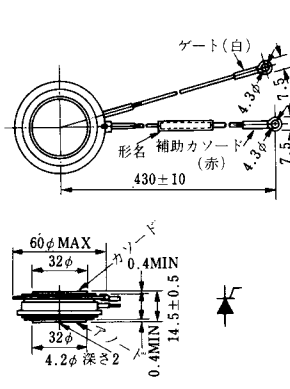
M-13



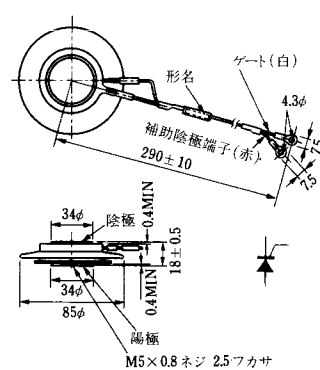
M-14



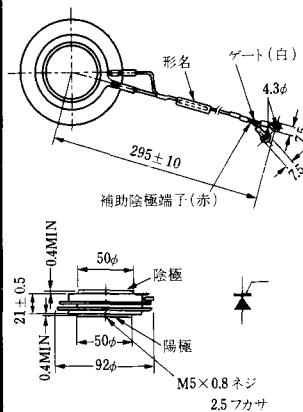
M-15



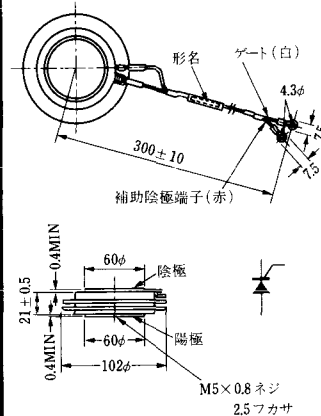
M-16



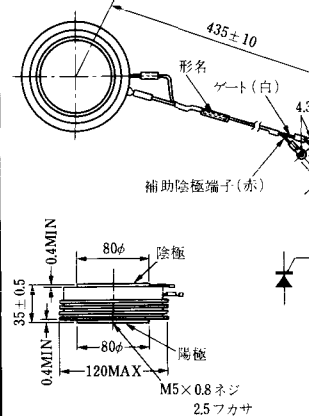
M-17



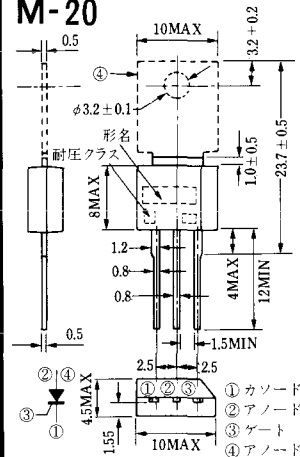
M-18



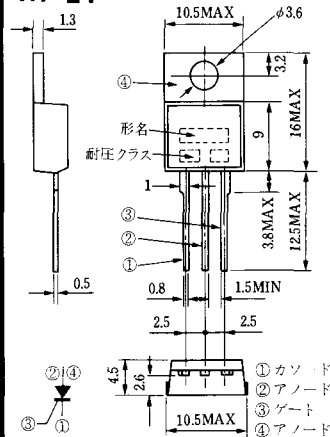
M-19



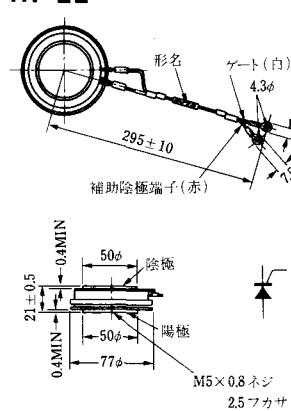
M-20



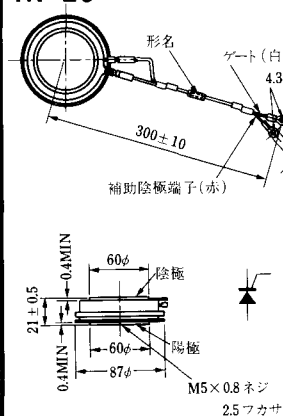
M-21



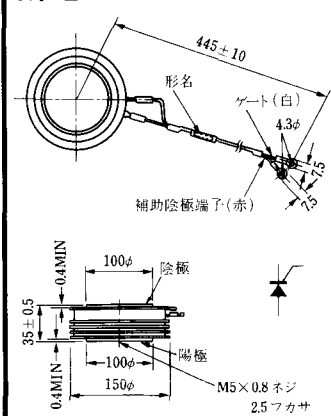
M-22



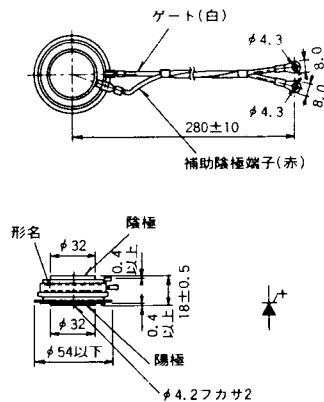
M-23



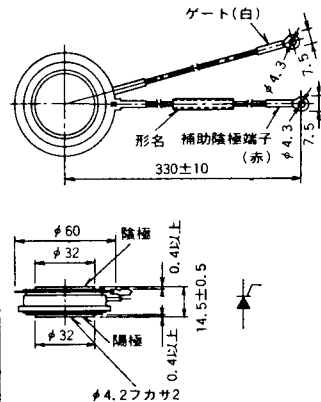
M-24



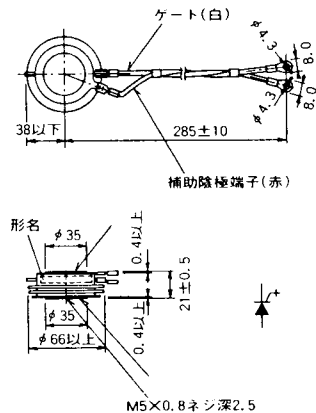
M-25



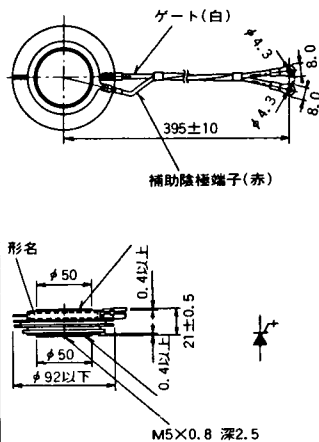
M-26



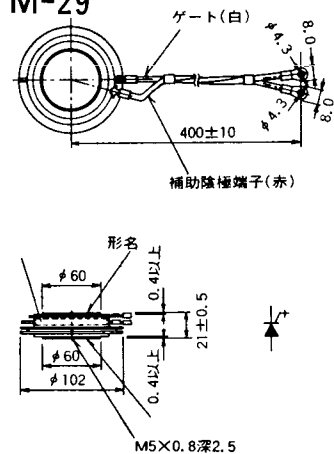
M-27



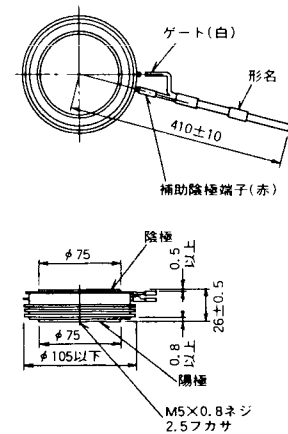
M-28



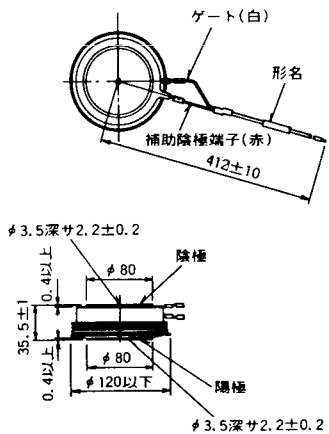
M-29



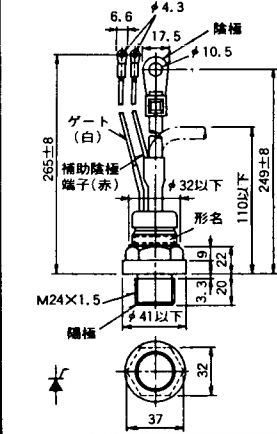
M-30



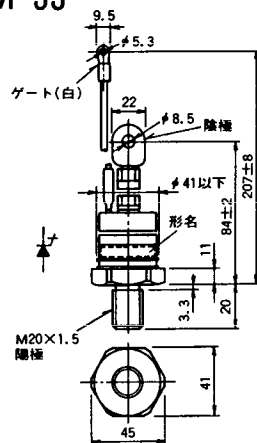
M-31



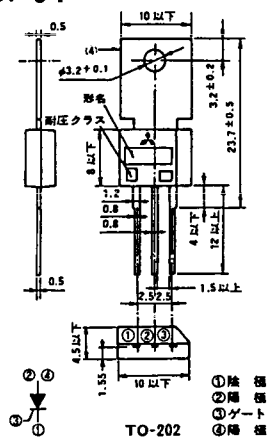
M-32



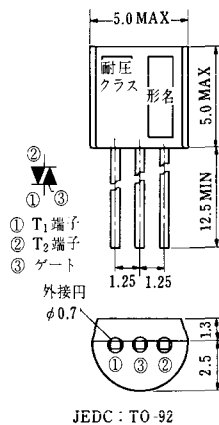
M-33



M-34

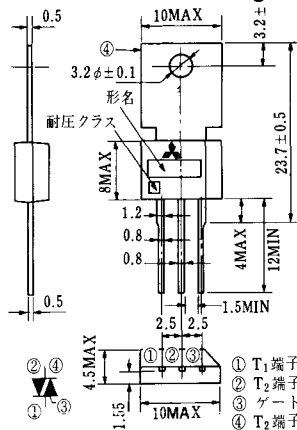


MT-1

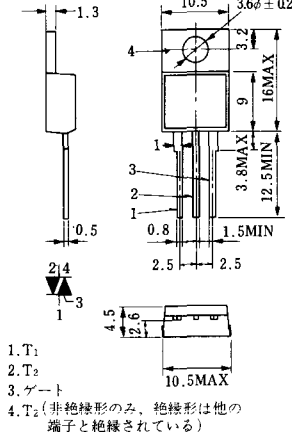


JEDC : TO-92

MT-2

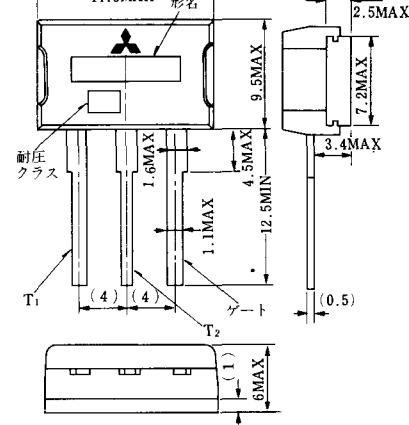


MT-3

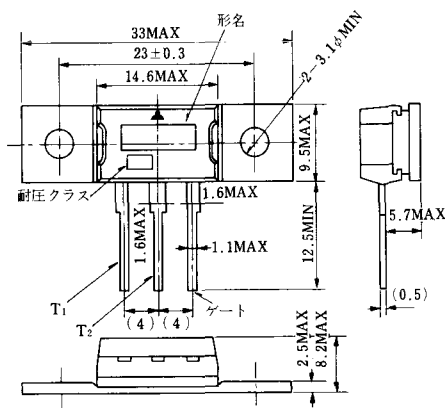


1. T₁
2. T₂
3. ゲート
4. T₂ (非絶縁形のみ、絶縁形は他の端子と絶縁されている)

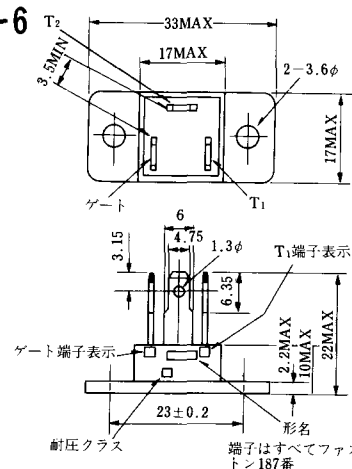
MT-4



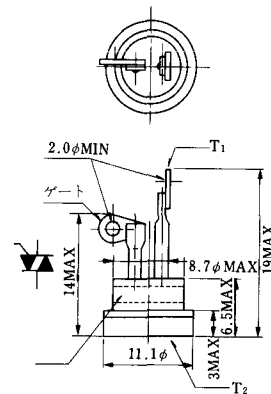
MT-5



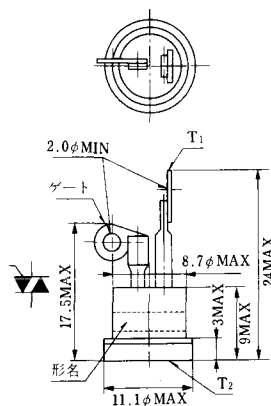
MT-6



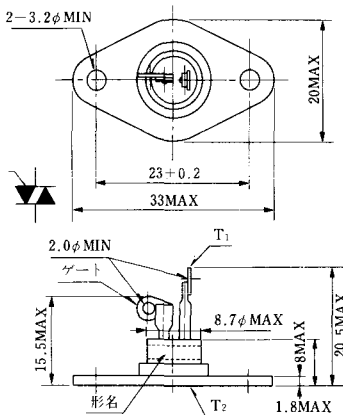
MT-7



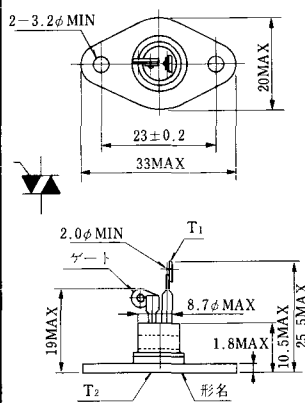
MT-8



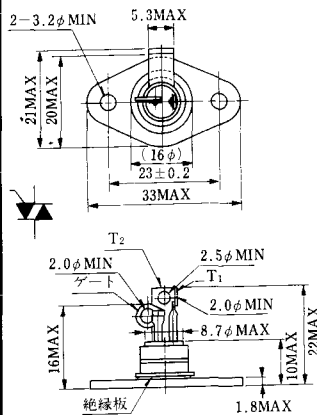
MT-9



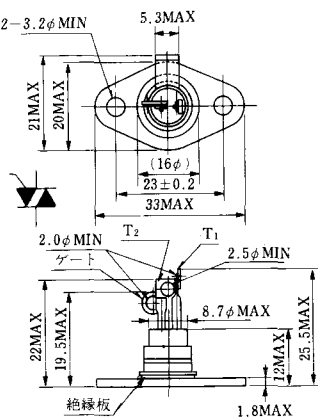
MT-10



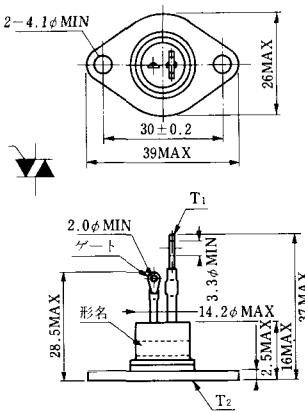
MT-11



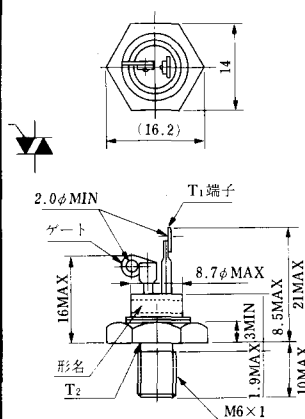
MT-12



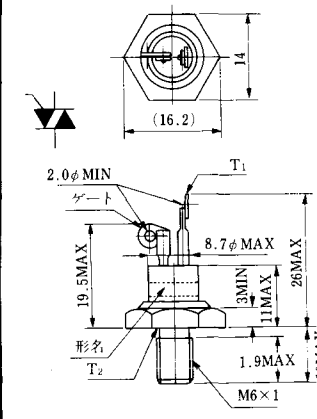
MT-13



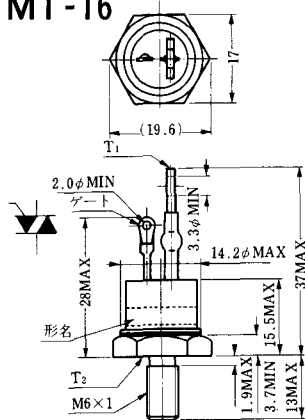
MT-14



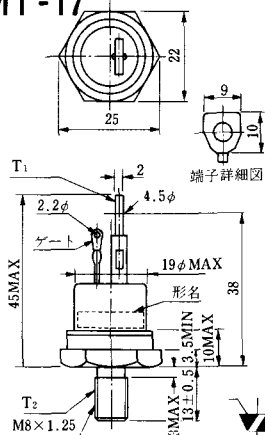
MT-15



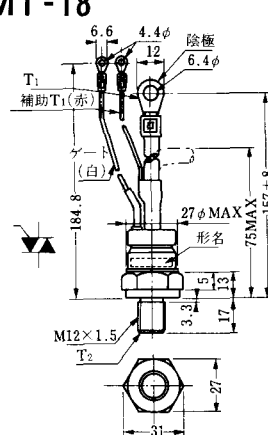
MT-16



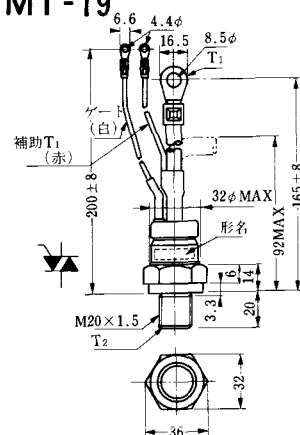
MT-17



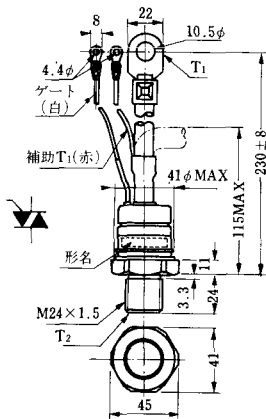
MT-18



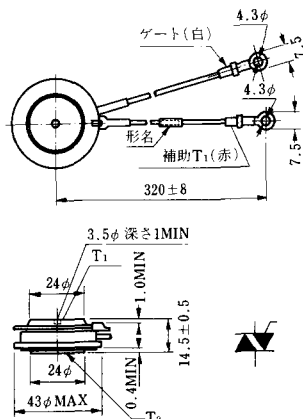
MT-19



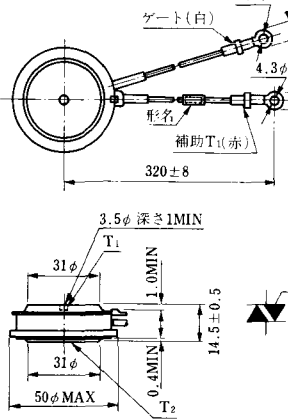
MT-20



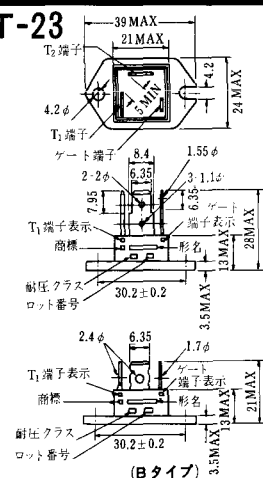
MT-21



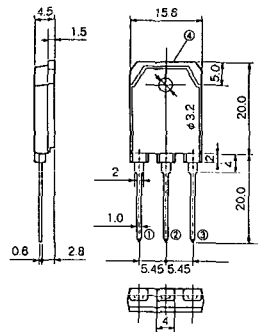
MT-22



MT-23



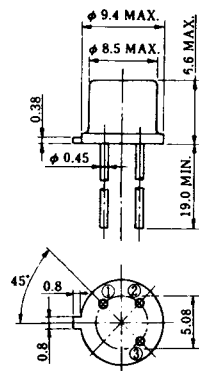
MT-24



TO - 3P

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

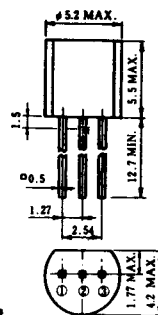
N-1



電極接続

- ① カソード
- ② ゲート
- ③ アノード

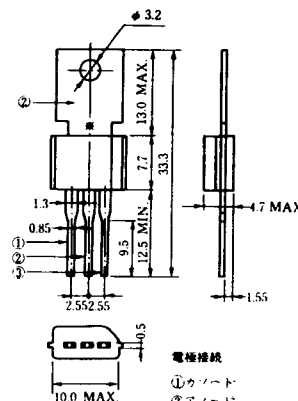
N-2



電極接続

- ① ヤート
- ② アノード
- ③ カソード

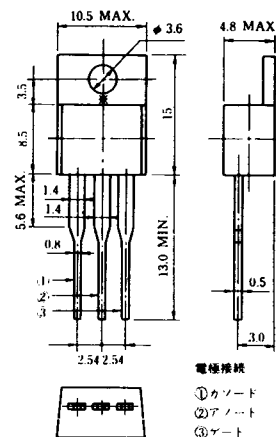
N-3



電極接続

- ① カソード
- ② アノード
- ③ ゲート

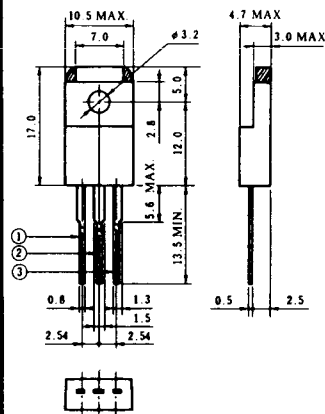
N-4



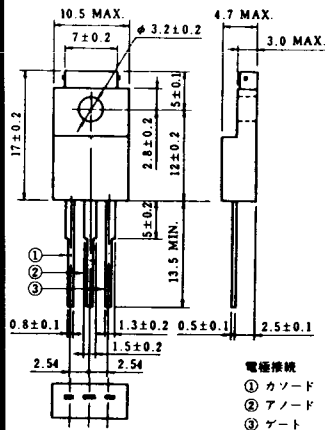
電極接続

- ① カソード
- ② アノード
- ③ ゲート

N-5



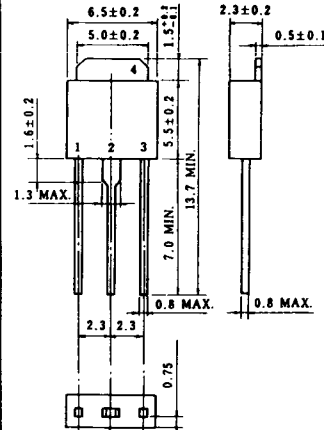
N-6



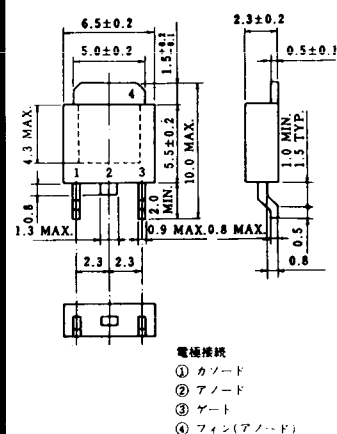
電極接続

- ① カソード
- ② アノード
- ③ ゲート

N-7



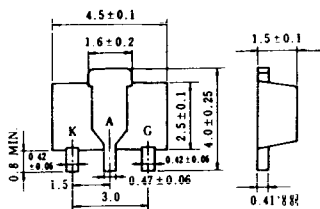
N-8



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



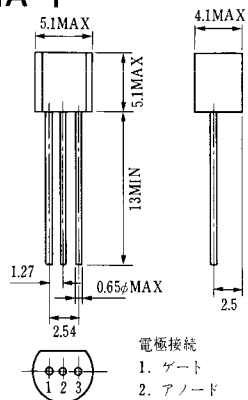
電極接続

K : カソード

A : アノード

G : ゲート

NA-1

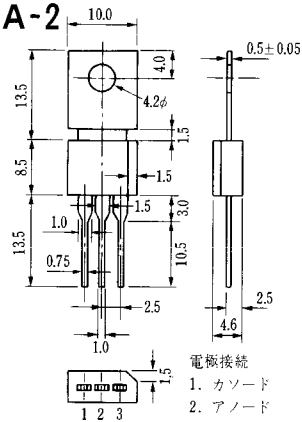


電極接続

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-3

NI-4

NI-5

NI-6

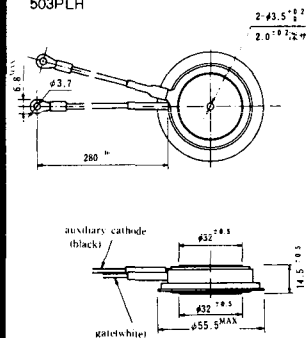
NI-7

NI-8

《寸法図単位:mm》

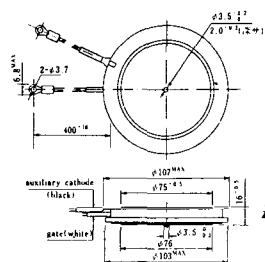
NI-16

503PLF
503PLH



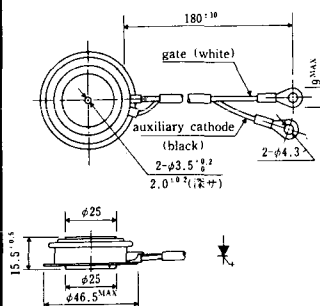
NI-17

3003PA



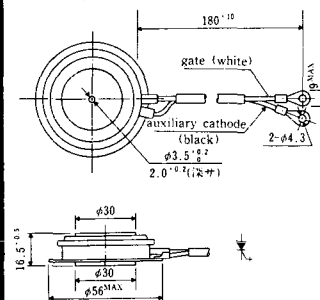
NI-18

353PGA「E



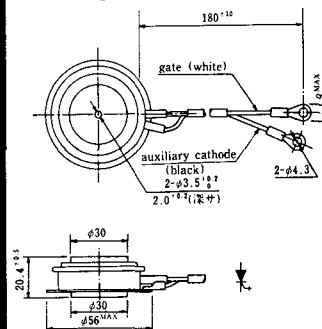
NI-19

603PGA, 603PGA「A, 803PGA



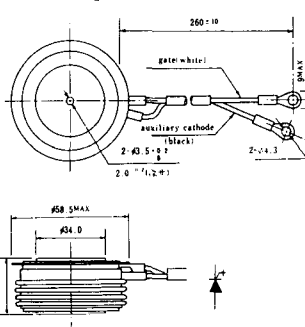
NI-20

603PGA「E



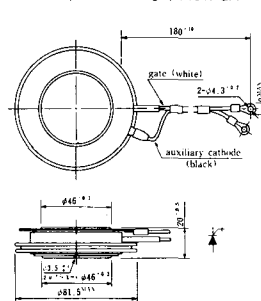
NI-21

1001PGB「E



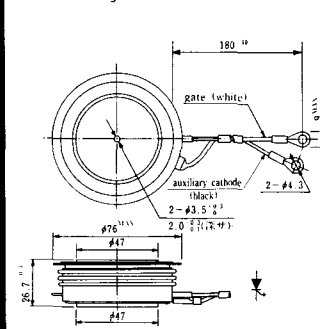
NI-22

1201PGA, 1201PGA「A, 1401PGA



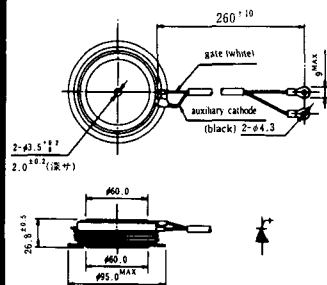
NI-23

1201PGA「E



NI-24

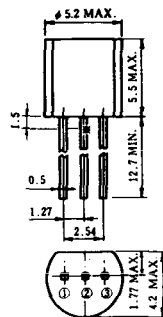
2001PGB^r JE



NI-25

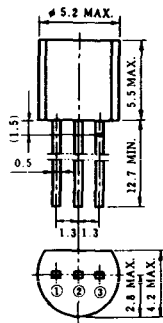
NI-26

NT-1



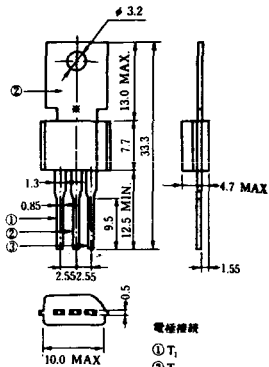
電極接続
①T₁
②ゲート
③T₂

NT-2



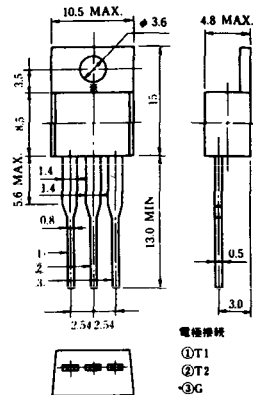
電極接続
①T₁
②ゲート
③T₂

NT-3



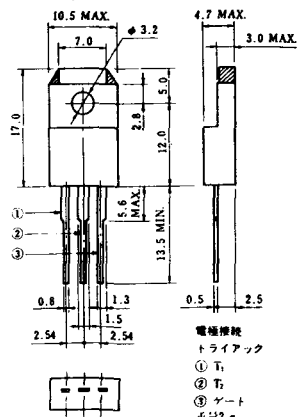
電極接続
①T₁
②T₂
③ゲート

NT-4



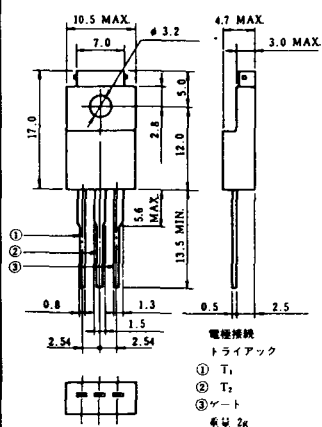
電極接続
①T₁
②T₂
③G

NT-5



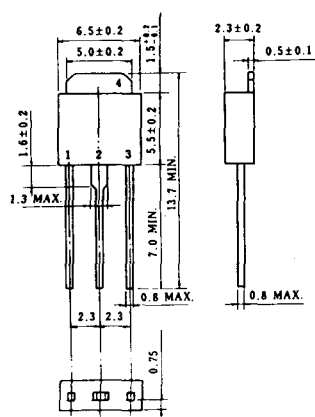
電極接続
トライアック
①T₁
②T₂
③ゲート
※2g

NT-6

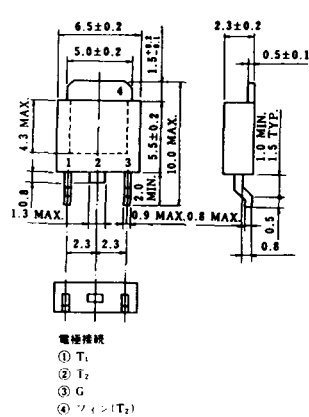


電極接続
トライアック
①T₁
②T₂
③ゲート
※2g

NT-7

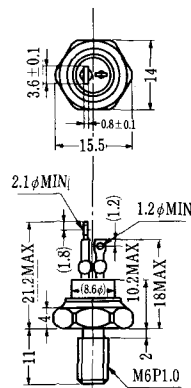


NT-8

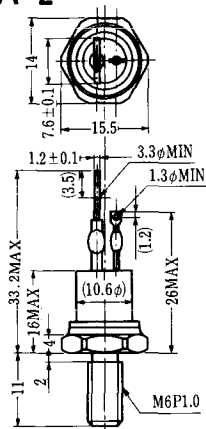


電極接続
①T₁
②T₂
③G
④フィイン(T₂)

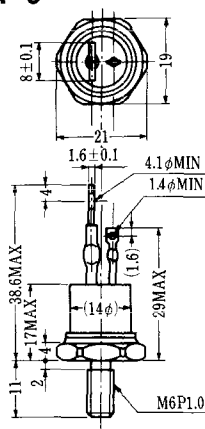
SA-1



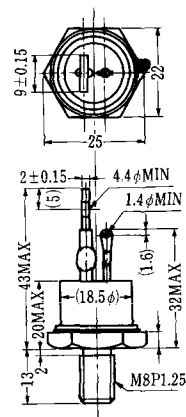
SA-2



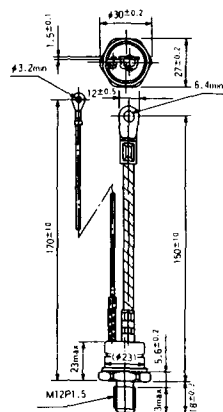
SA-3



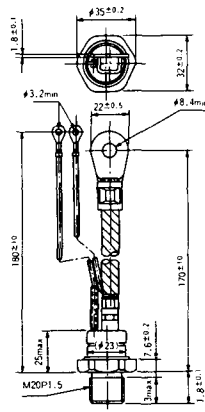
SA-4



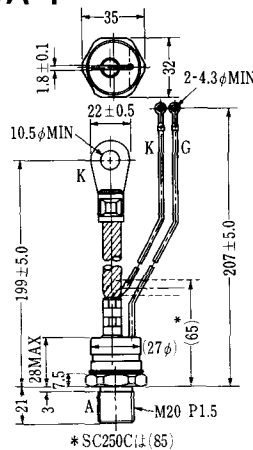
SA-5



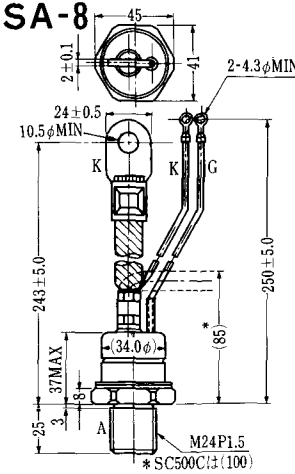
SA-6



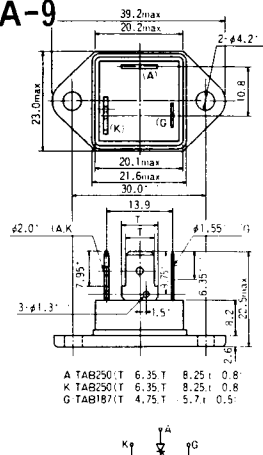
SA-7



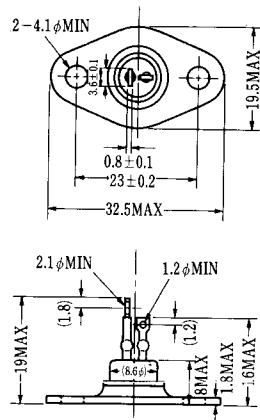
SA-8



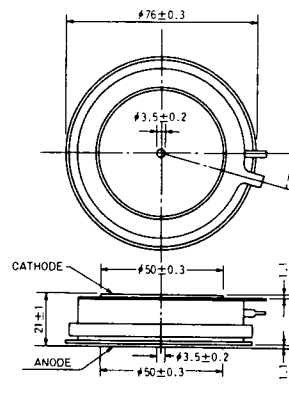
SA-9



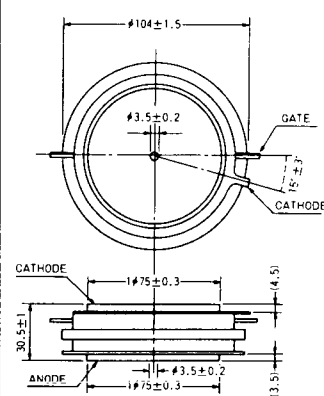
SA-10



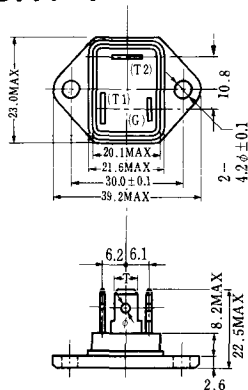
SA-11



SA-12

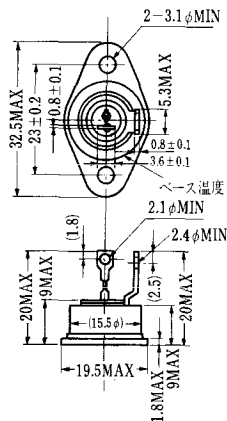


SAT-1

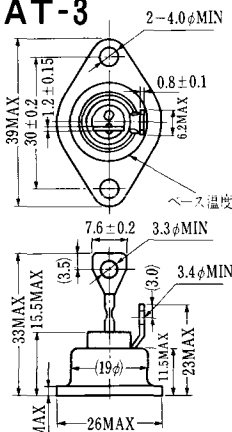


T1端子:ファストン250($T=6.35$, $t=0.8$, $\phi=1.65$)
T2端子:ファストン250($T=6.35$, $t=0.8$, $\phi=1.65$)
G端子:ファストン187($T=4.75$, $t=0.5$, $\phi=1.3$)

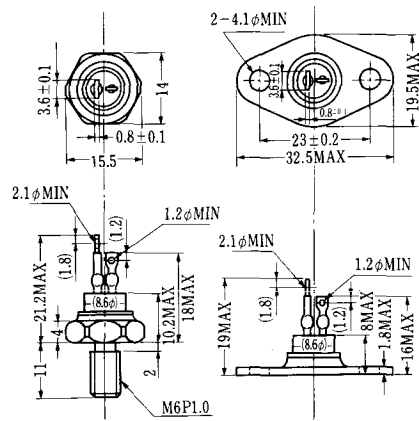
SAT-2



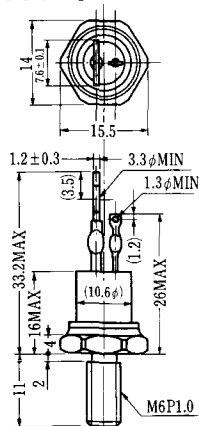
SAT-3



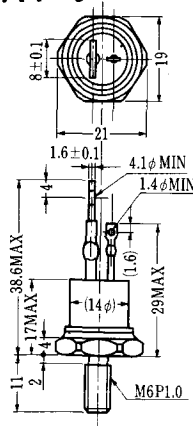
SAT-4



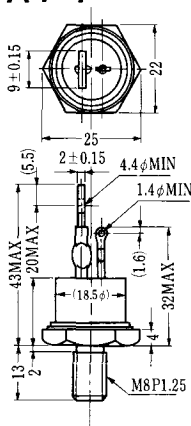
SAT-5



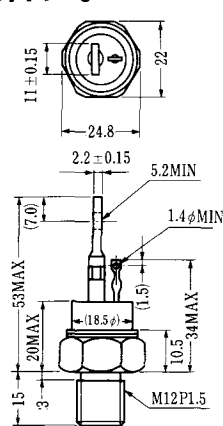
SAT-6



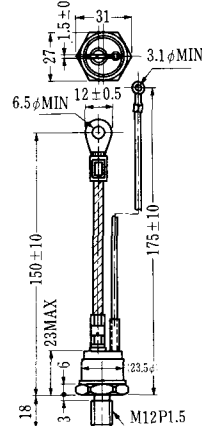
SAT-7



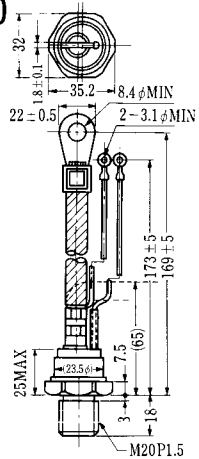
SAT-8



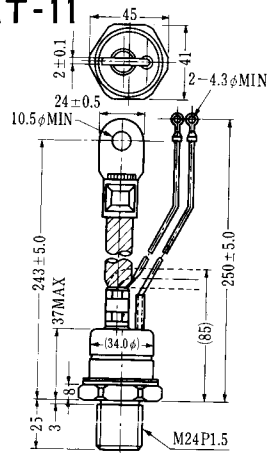
SAT-9.



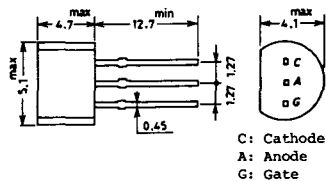
SAT-10



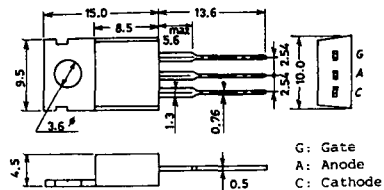
SAT-11



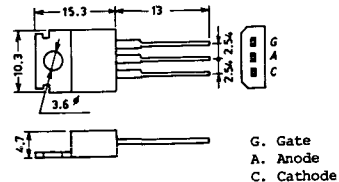
SY-1(1096A)



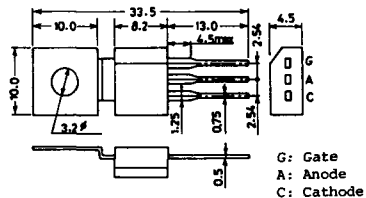
SY-2(1151)



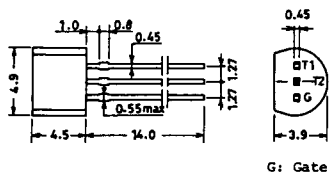
SY-3(1104)



SY-4(1150)

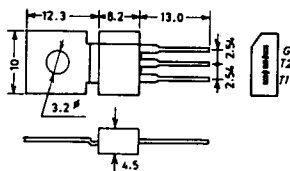


1097A

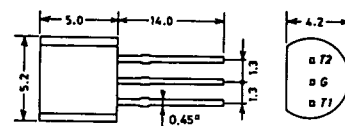


G: Gate

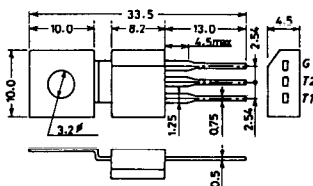
1102



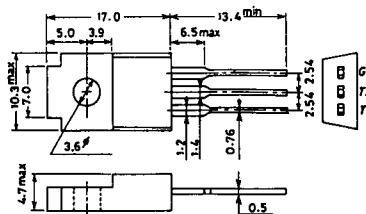
1141



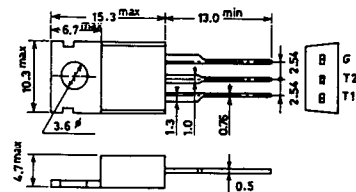
1142



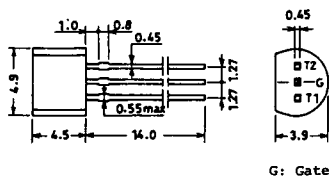
1144



1155

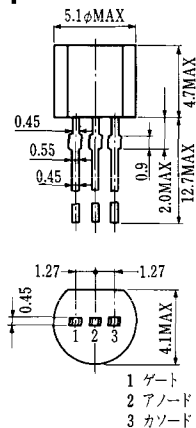


1192A

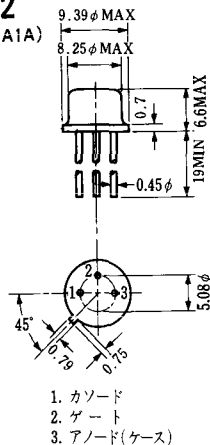


G: Gate

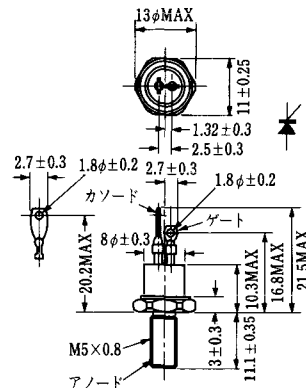
T-1 (13-5A1A)



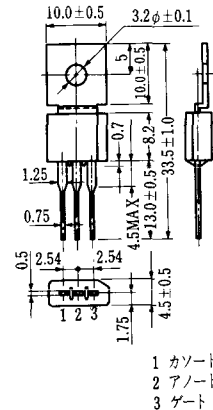
T-2 (13-8A1A)



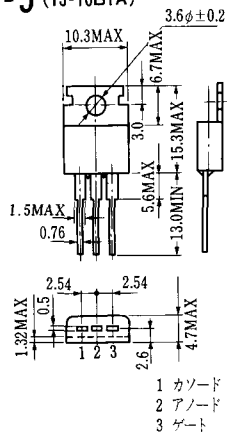
T-3 (13-8C1A)



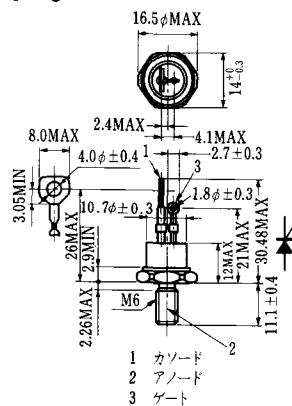
T-4 (13-10A1A)



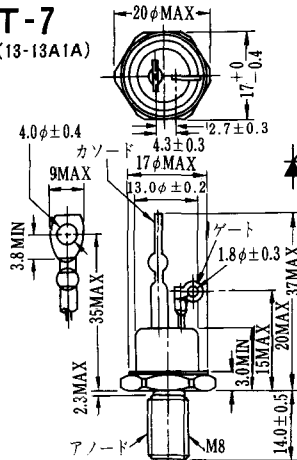
T-5 (13-10B1A)



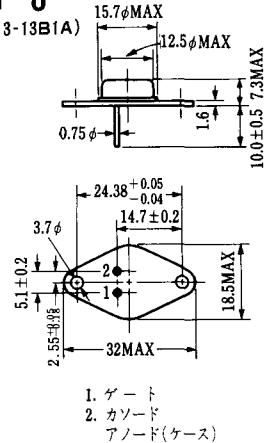
T-6 (13-11D1A)



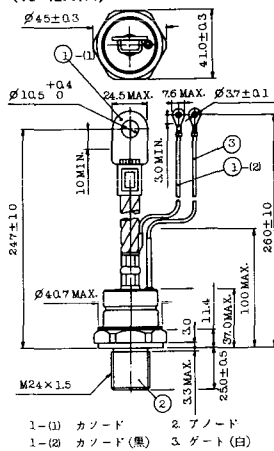
T-7 (13-13A1A)



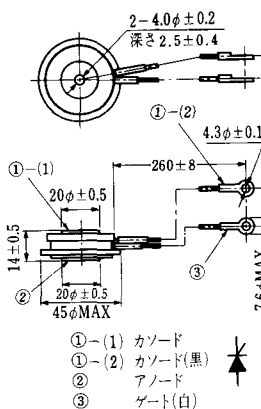
T-8 (13-13B1A)



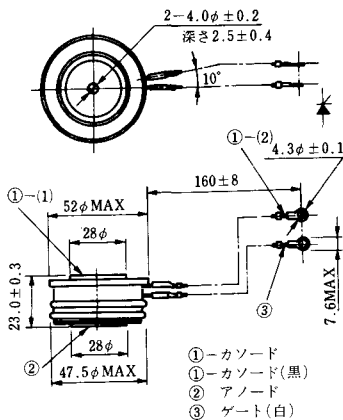
T-17 (13-42A1A)



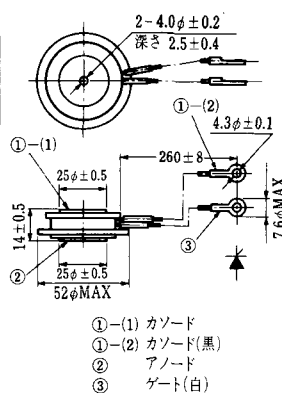
T-18 (13-45D1A)



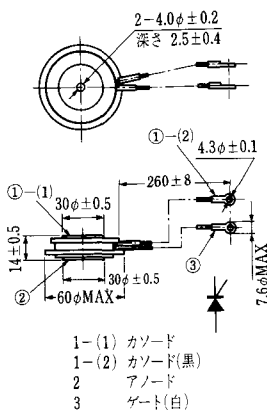
T-19 (13-52B1A)



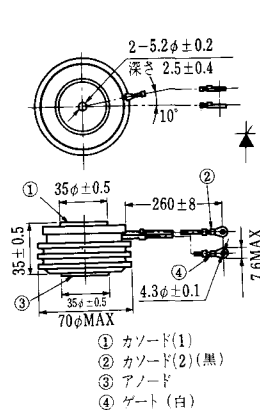
T-20 (13-52C1A)



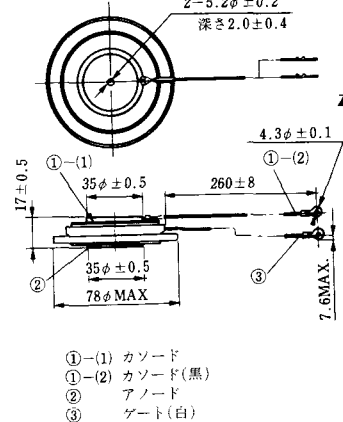
T-21 (13-60A1A)



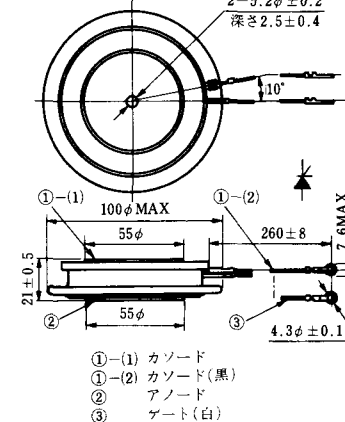
T-22 (13-70C1A)



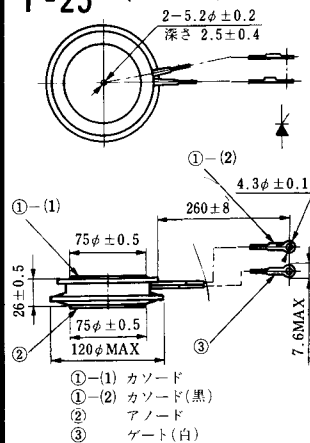
T-23 (13-78A1A)



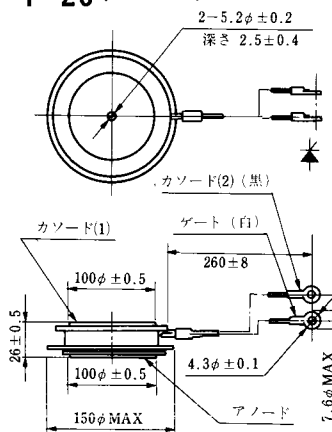
T-24 (13-100C1A)



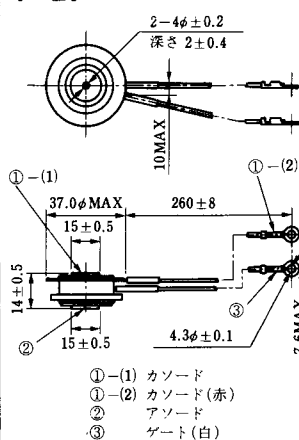
T-25 (13-120A2A)



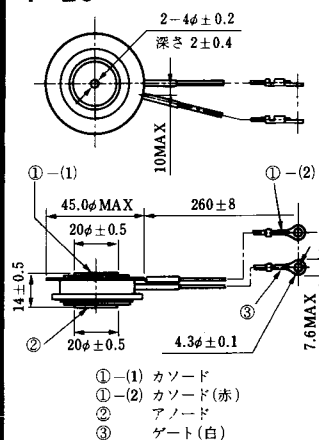
T-26 (13-150A1A)



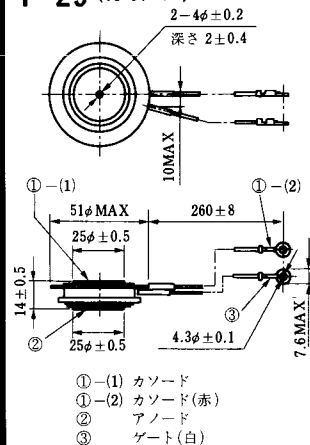
T-27 (13-37A1A)



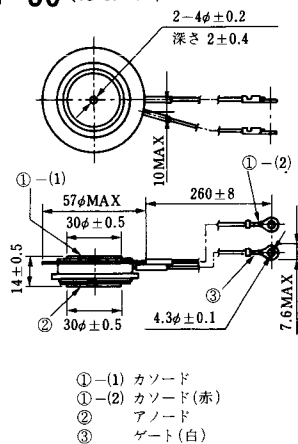
T-28 (13-45E1A)



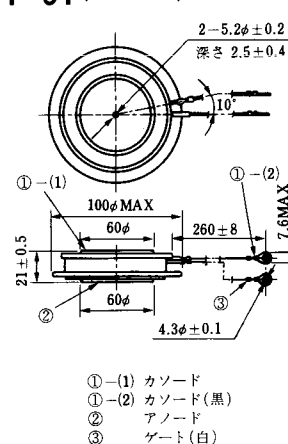
T-29 (13-51A1A)



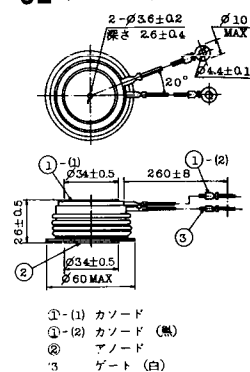
T-30 (13-57A1A)



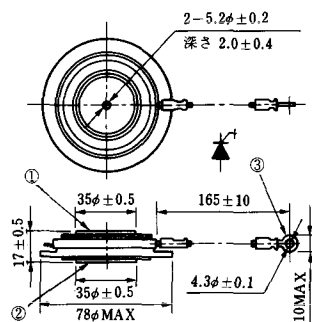
T-31 (13-100E1A)



T-32 (13-60E3A)

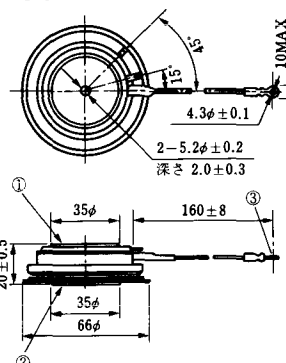


T-33 (13-78B1A)



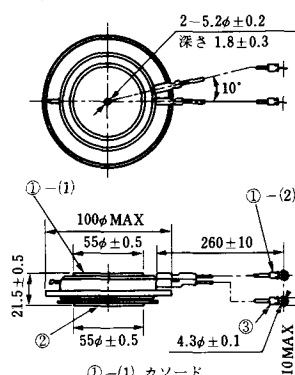
- ① カソード
② アノード
③ ゲート

T-34 (13-66A1A)



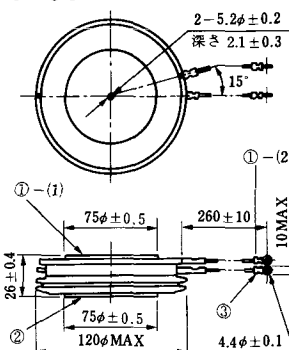
- ① カソード
② アノード
③ ゲート

T-35 (13-100D1A)



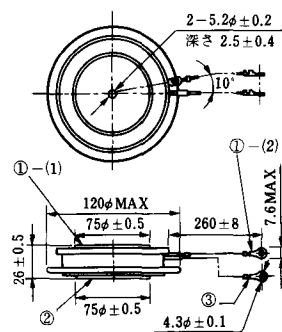
- ①-(1) カソード
①-(2) カソード(黒)
② アノード
③ ゲート(白)

T-36 (13-120E1A)



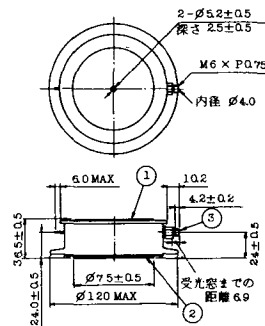
- ①-(1) カソード
①-(2) カソード(黒)
② アノード
③ ゲート(白)

T-37 (13-120A1A)



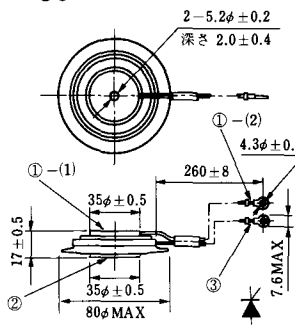
- ①-(1) カソード
①-(2) カソード(黒)
② アノード
③ ゲート(白)

T-38 (13-120C1A)



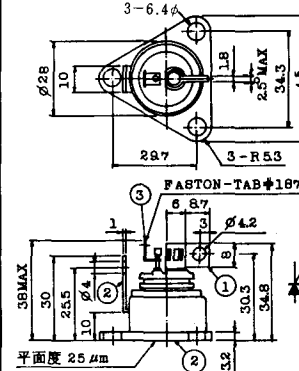
- ① カソード
② アノード
③ ゲート

T-39 (13-80B1A)



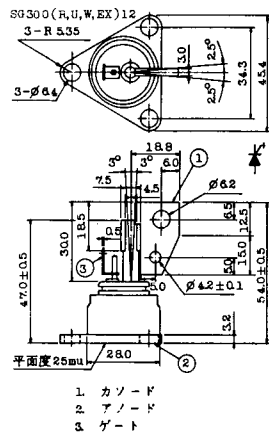
- ①-(1) カソード
①-(2) カソード(黒)
② アノード
③ ゲート(白)

T-40 (13-28A1A)

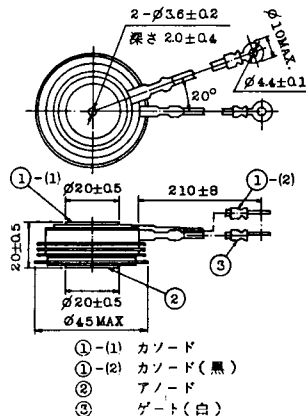


1. カソード
2. アノード
3. ゲート

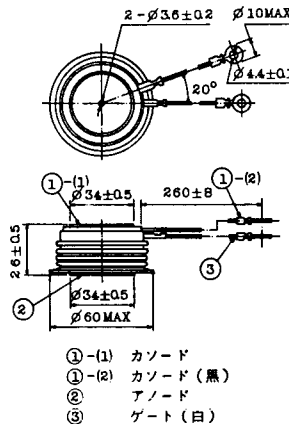
T-41 (13-28A2A)



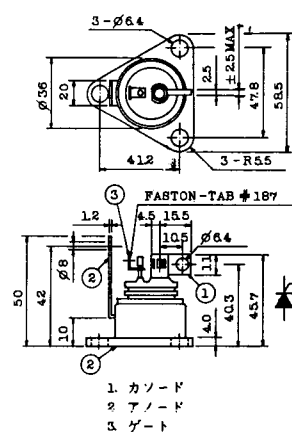
T-42 (13-45F1A)



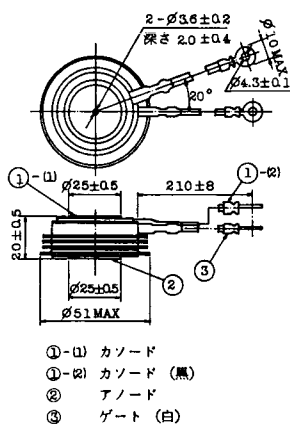
T-43 (13-60E2A)



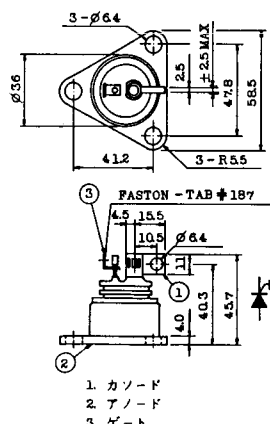
T-44 (13-36A1A)



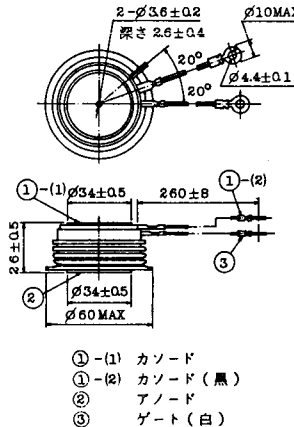
T-45 (13-51B1A)



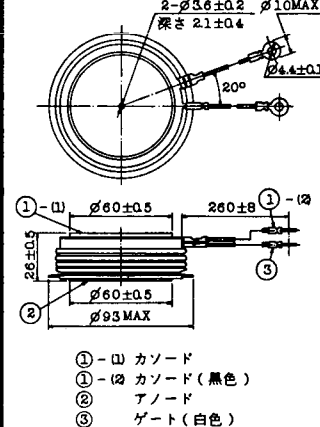
T-46 (13-36B1A)



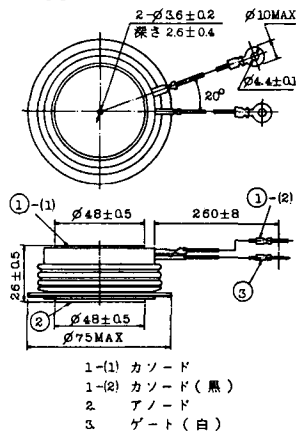
T-47 (13-60E1A)



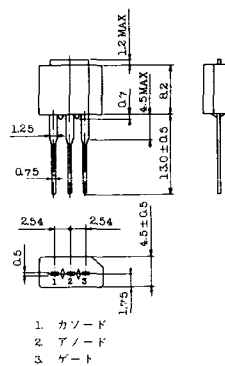
T-48 (13-93C1A)



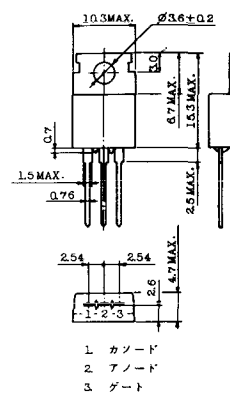
T-49 (13-75A1A)



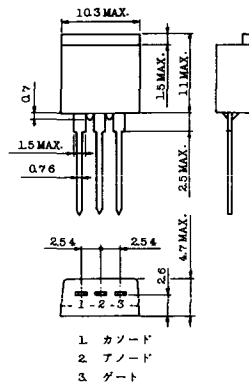
T-50 (13-10A3A)



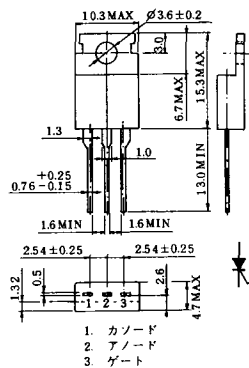
T-51 (13-10D1A)



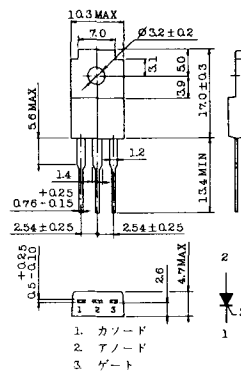
T-52 (13-10D2A)



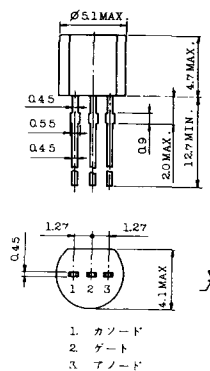
T-53 (13-10E1B)



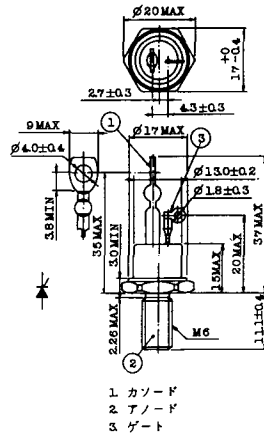
T-54 (13-10F1B)



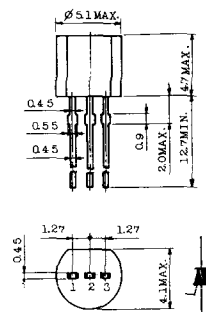
T-55 (13-5A1D)



T-56 (13-13C1A)

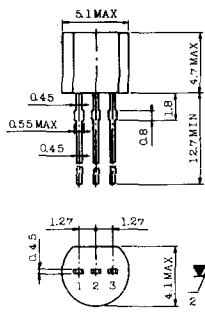


TT-1



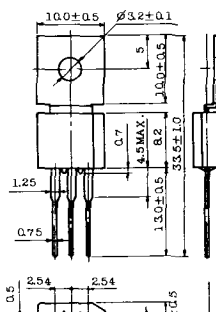
1. ゲート
2. T₂
3. T₁

TT-2



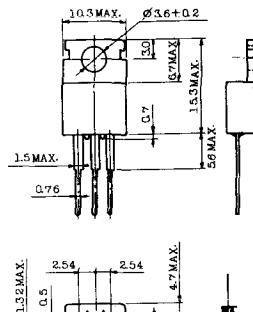
1. T₁
2. ゲート
3. T₂

TT-3



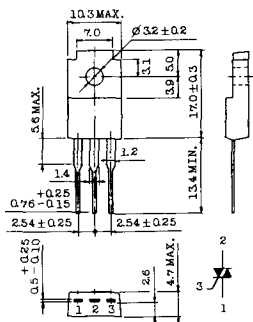
1. T₁
2. T₂
3. ゲート

TT-4



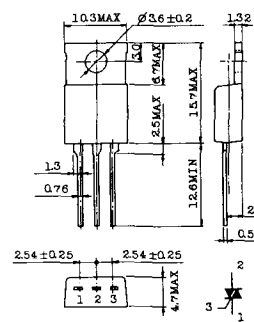
1. T₁
2. T₂
3. ゲート

TT-5



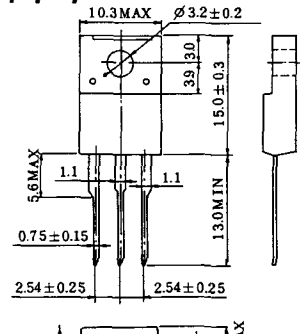
1. T₁
2. T₂
3. ゲート

TT-6



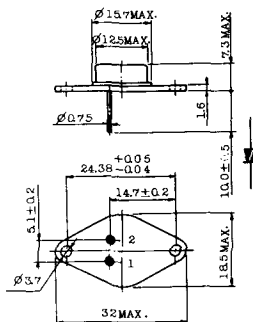
1. T₁
2. T₂ (放熱板)
3. ゲート

TT-7



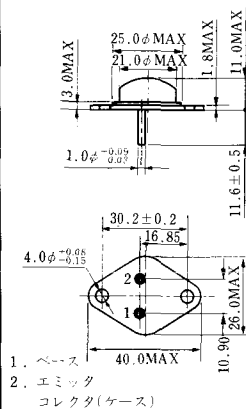
1. T₁
2. T₂
3. ゲート

TT-8

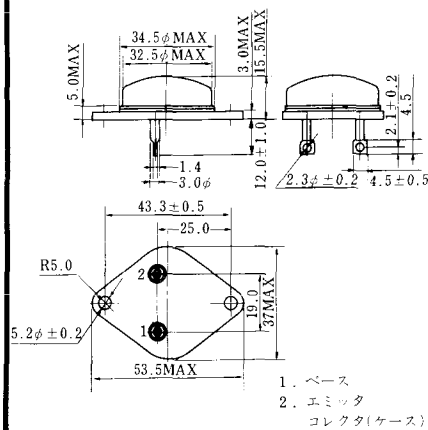


1. ゲート
2. T₁
- T₂ (ケース)

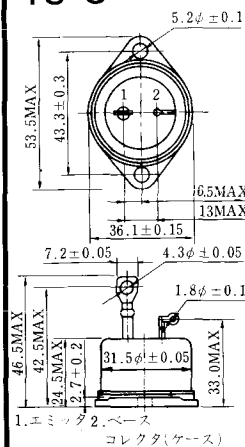
TS-1



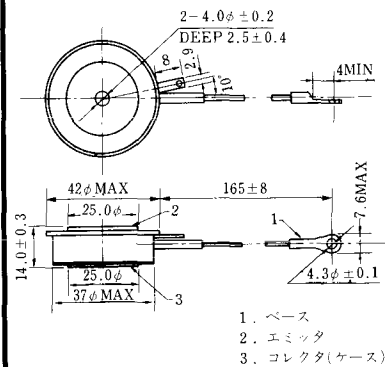
TS-2



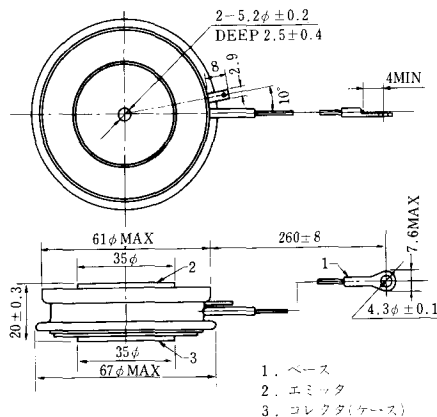
TS-3



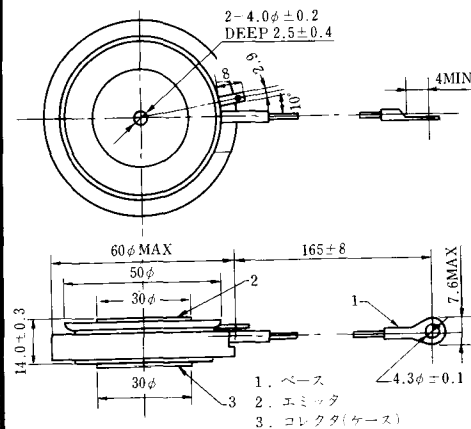
TS-4



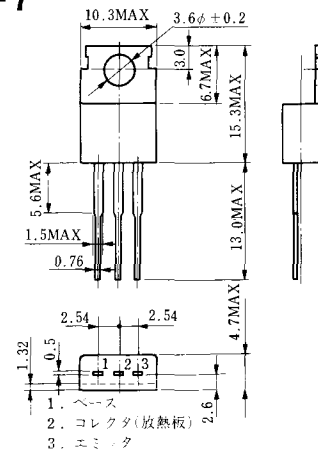
TS-5

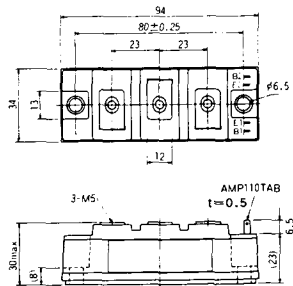
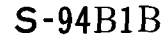
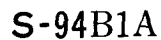
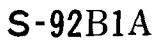
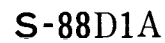
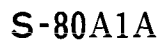


TS-6

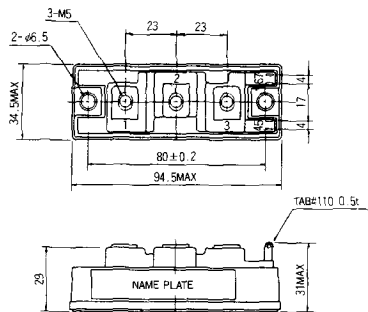


TS-7

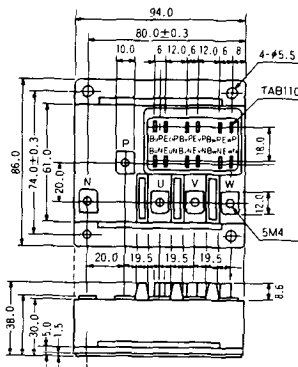




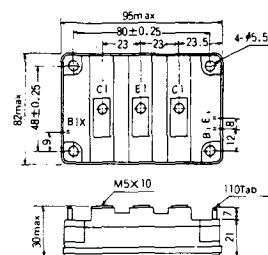
S-94B2A



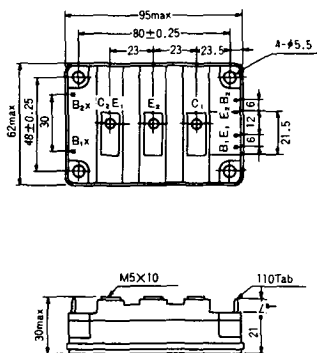
S-94D1A



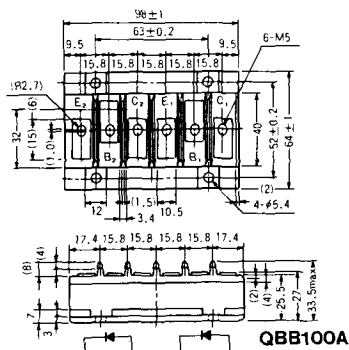
S-95A1A



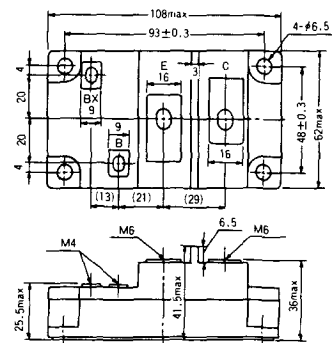
S-95B1A



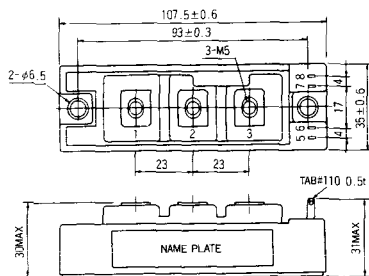
S-98B1B



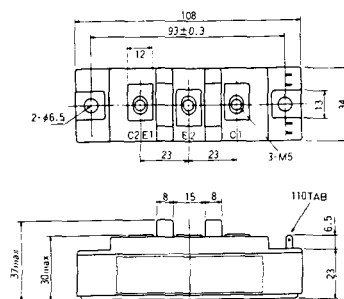
S-108A2A



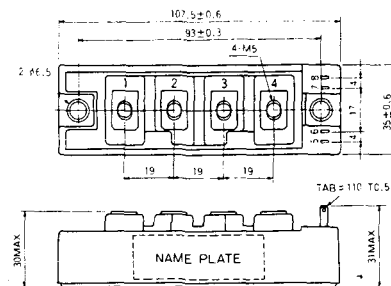
S-108B1A



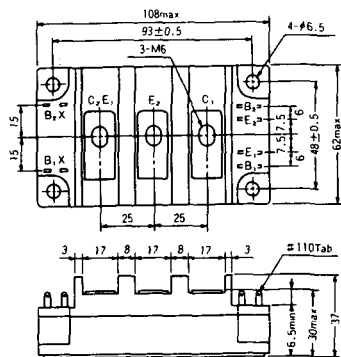
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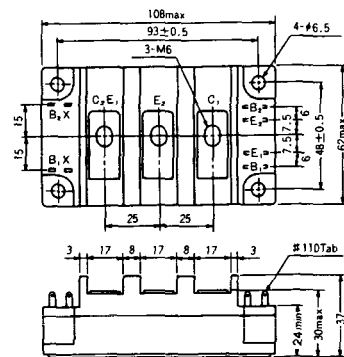
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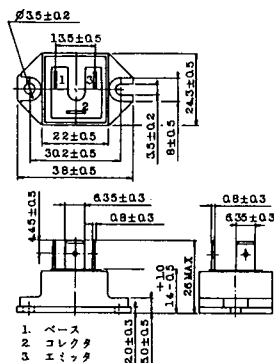
S-108B2A



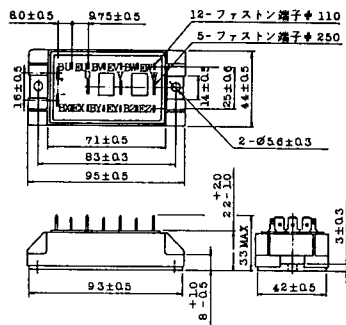
S-108B2B



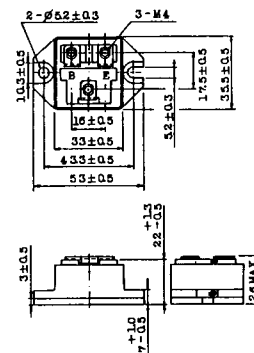
2-22B1A



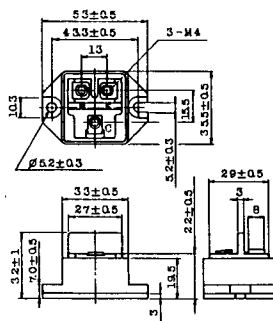
2-27A4A



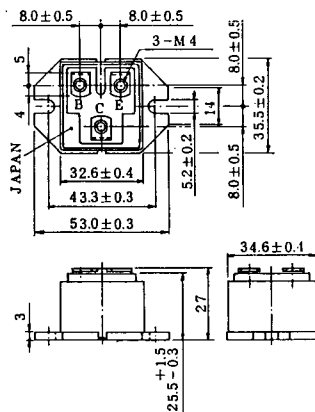
2-33C1A



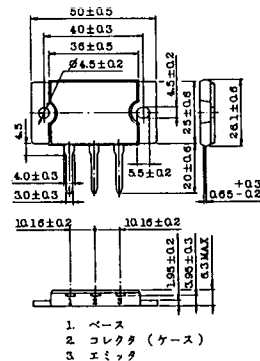
2-33D1A

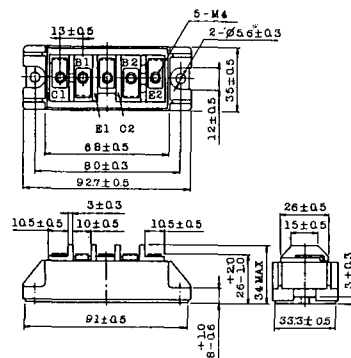
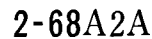
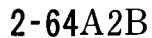
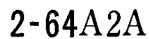
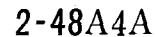
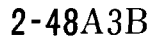


2-33F1A

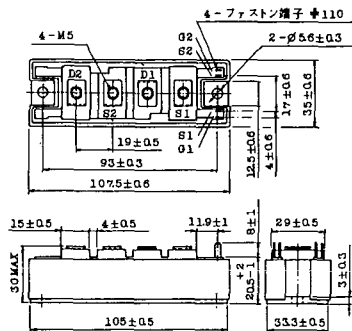


2-37A1A

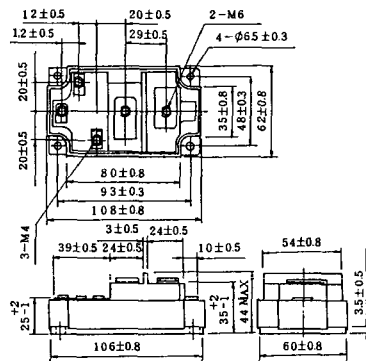




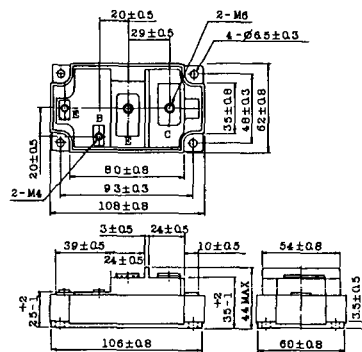
2-108B1A



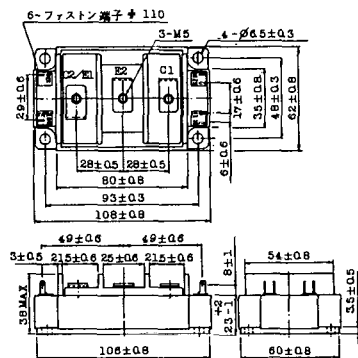
2-109A3A



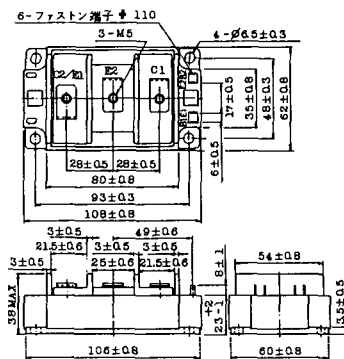
2-109A4A

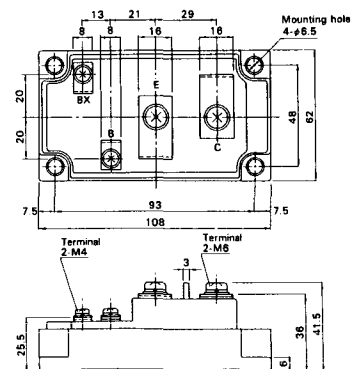
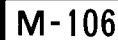
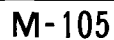
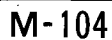
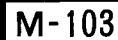
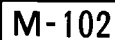


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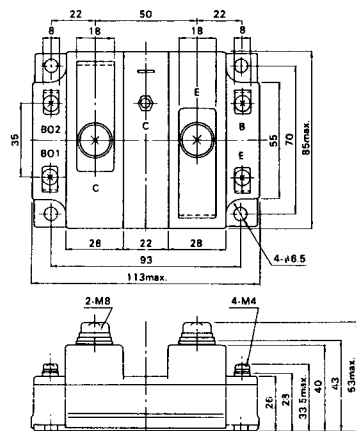


2-109B4A

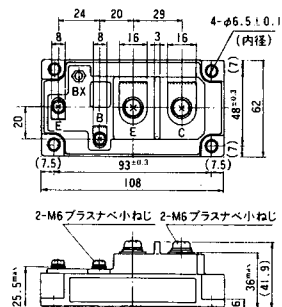


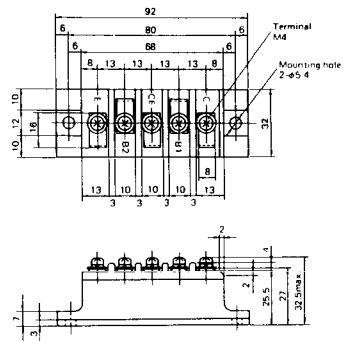


M-107

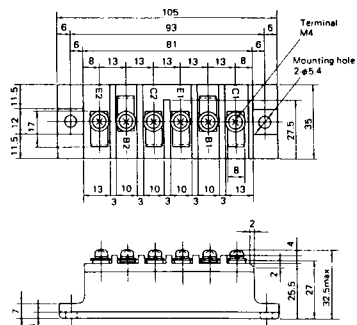


M-116

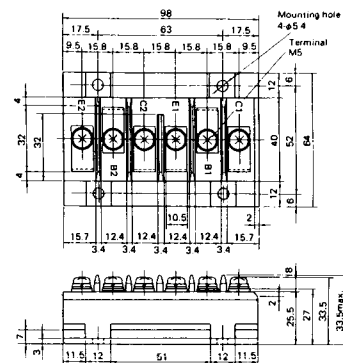




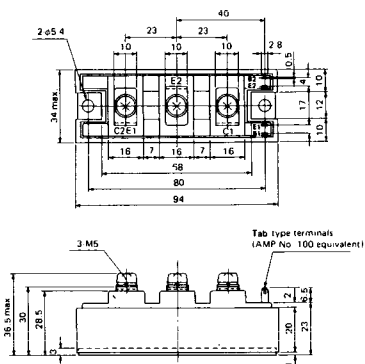
M-202



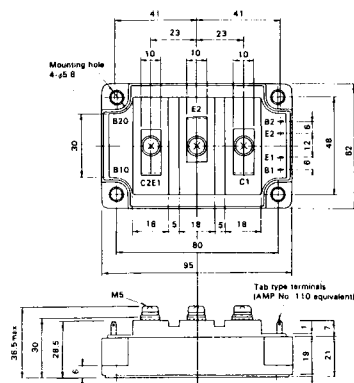
M-203



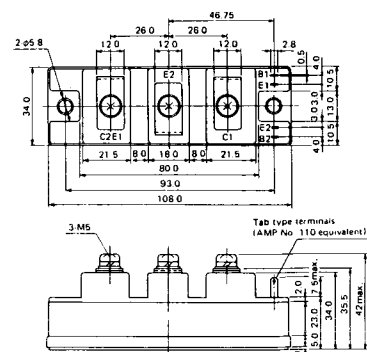
M-204



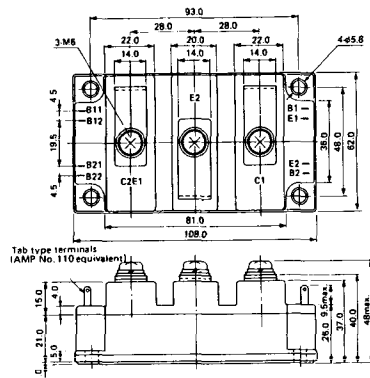
M-205



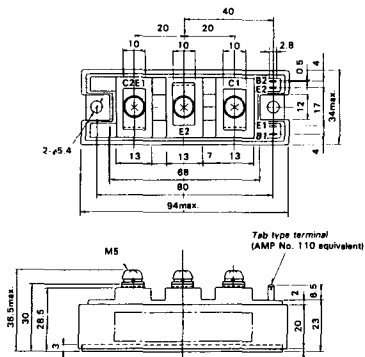
M-206



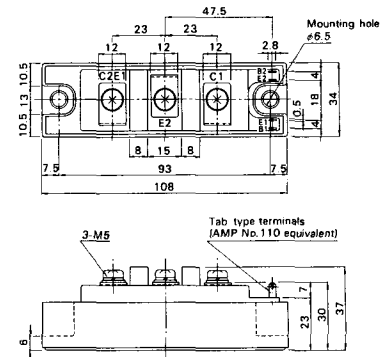
M-207



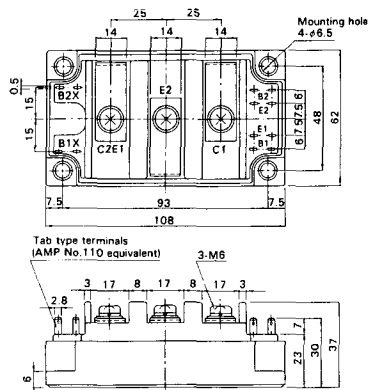
M-208



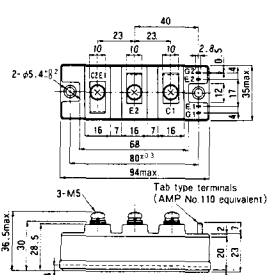
M-209



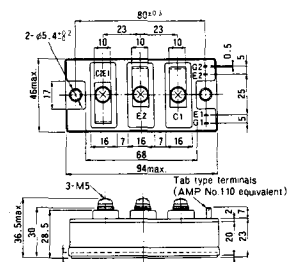
M-210



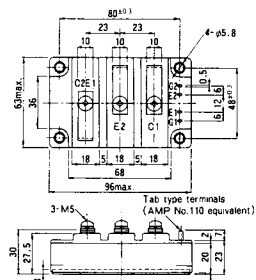
M-211



M-212

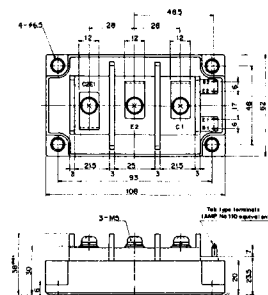


M-213

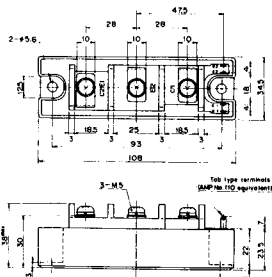


M-214

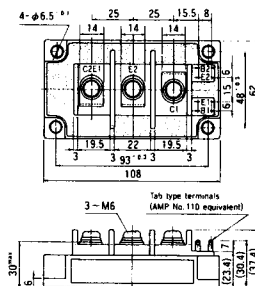
M-215



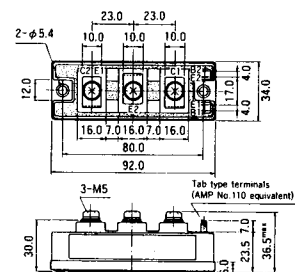
M-216



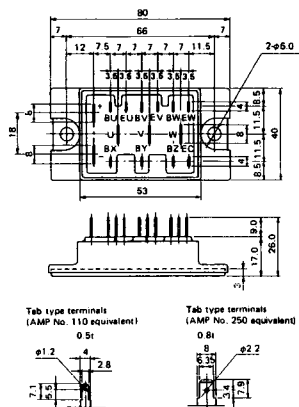
M-217



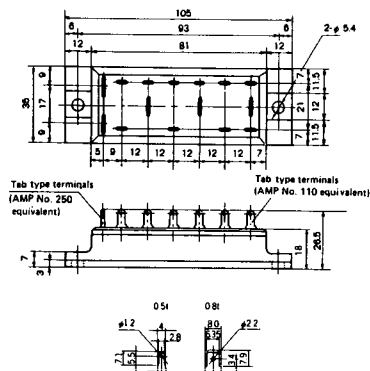
M-218



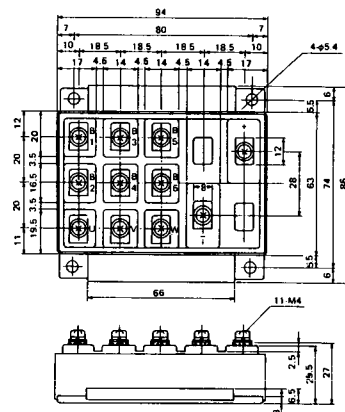
M-601



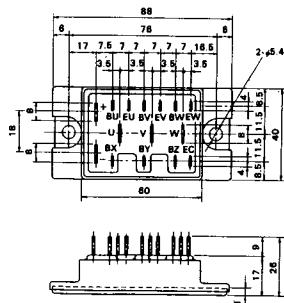
M-602



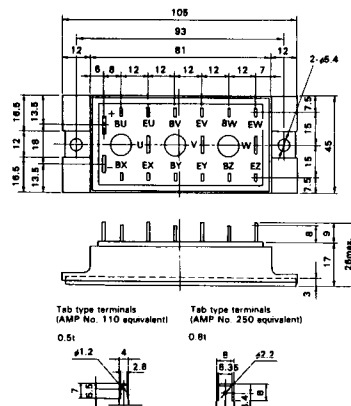
M-603



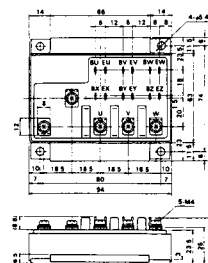
M-604



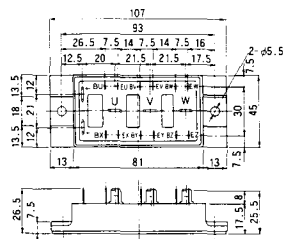
M-605



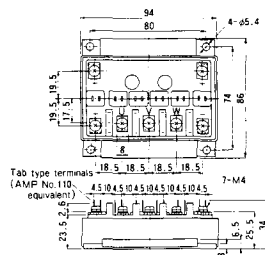
M-606



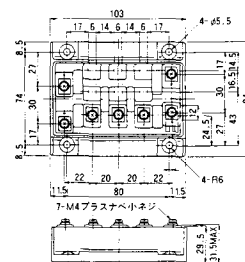
M-607



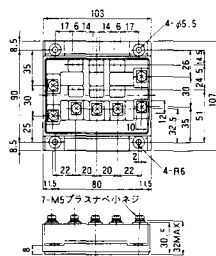
M-608



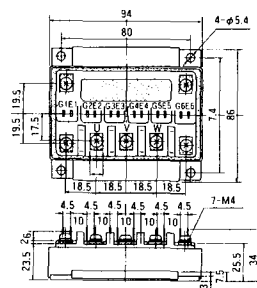
M-609



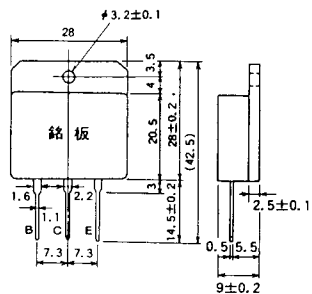
M-610



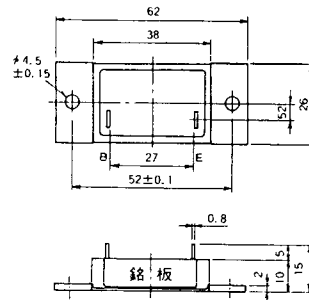
M-616



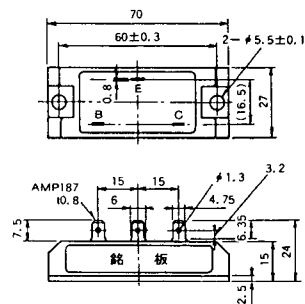
M-1A1A



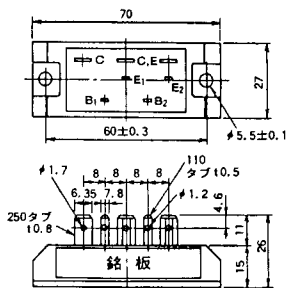
M-2A1A



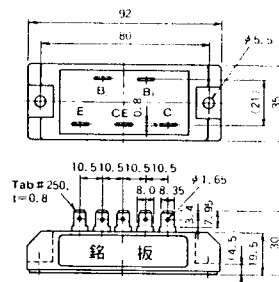
M-2B1A



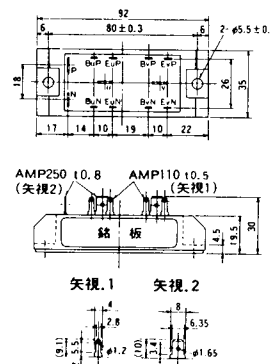
M-2B2A



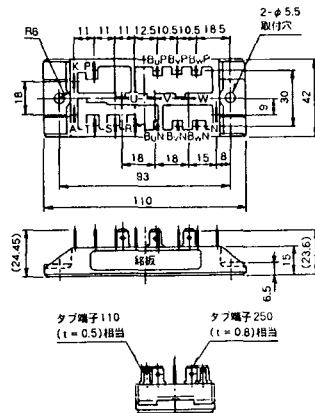
M-2C2A



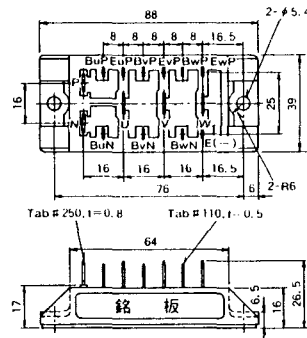
M-2D4A



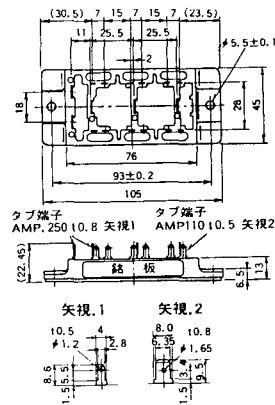
M-2E6A



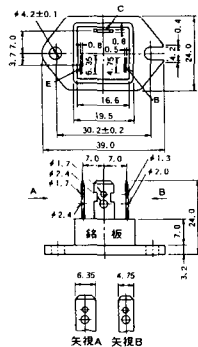
M-2F6A



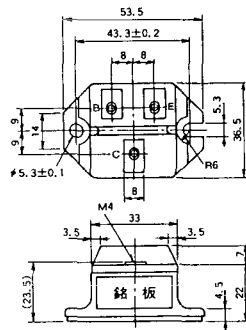
M-2G6A



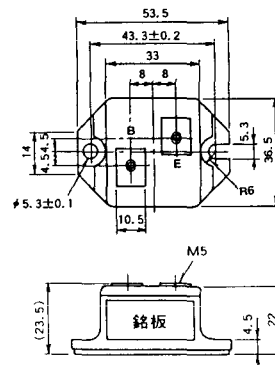
M-3A1A



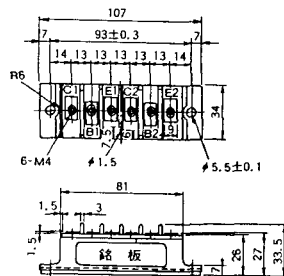
M-3B1A



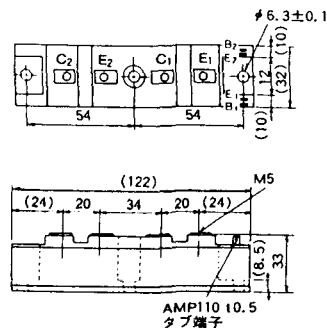
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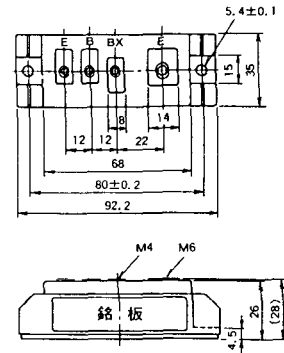
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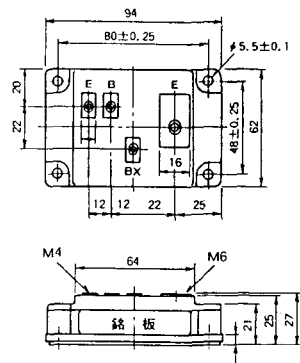
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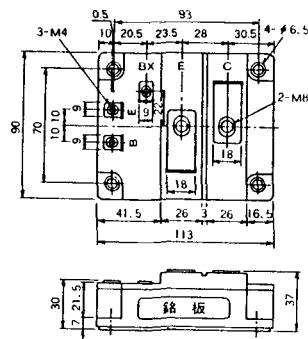
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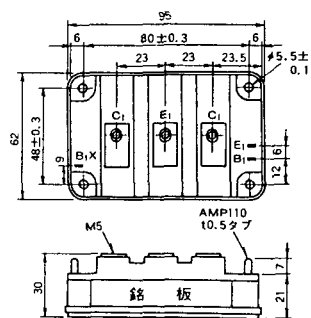
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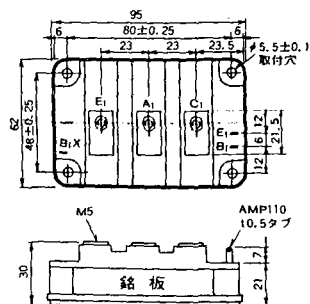
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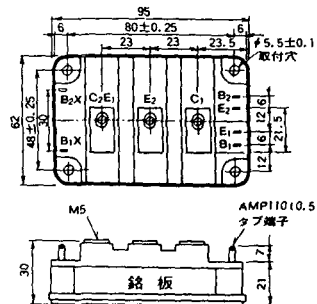
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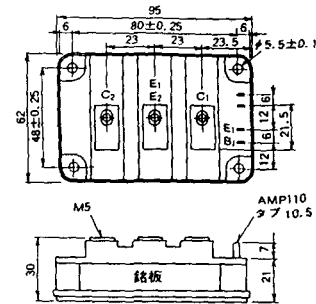
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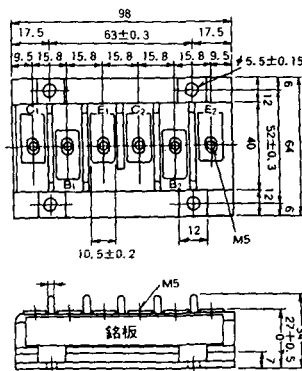
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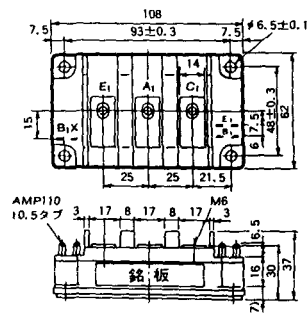
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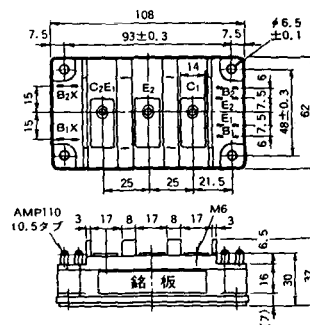
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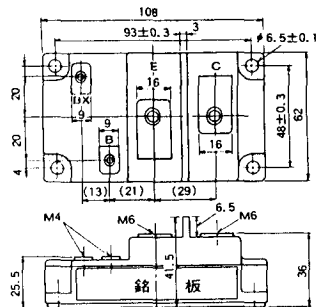
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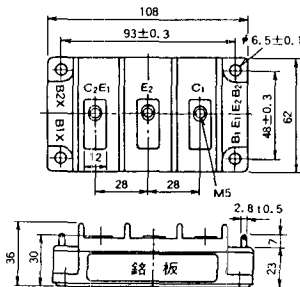
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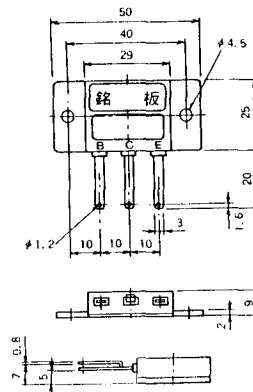
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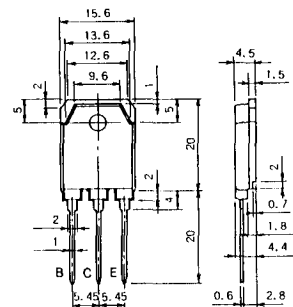
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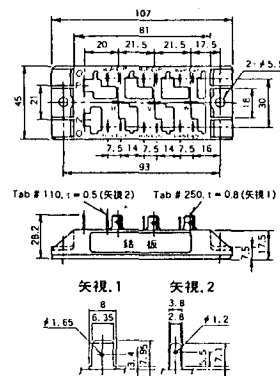
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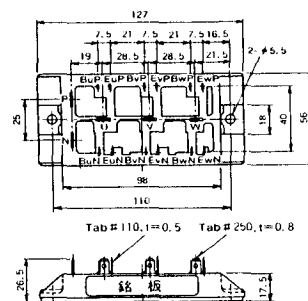
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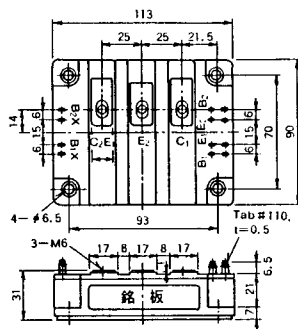
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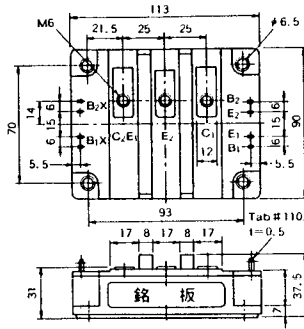
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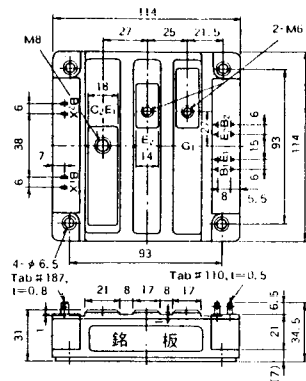
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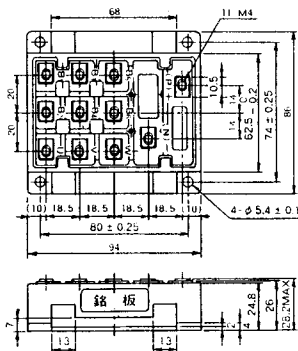
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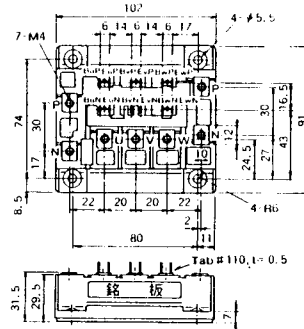
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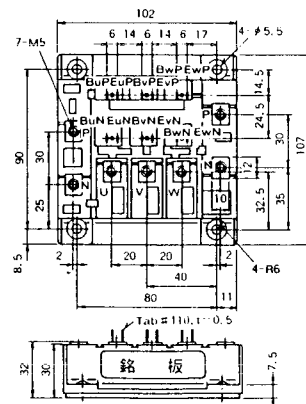
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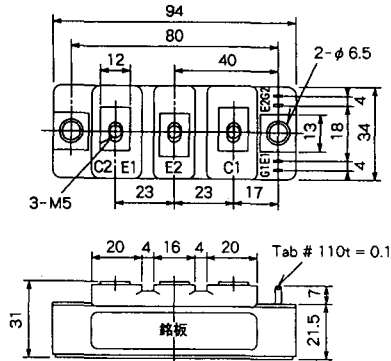
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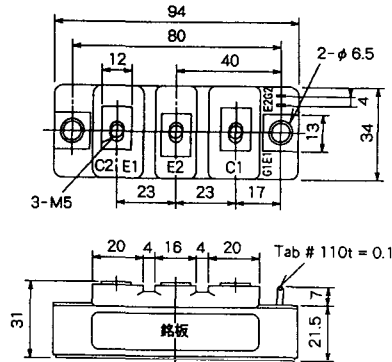
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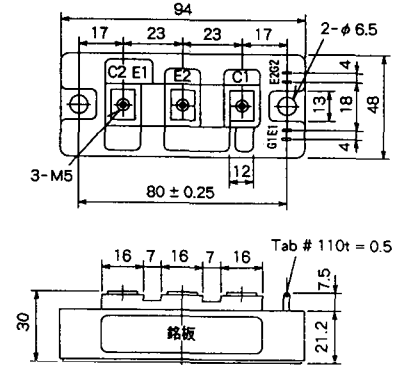
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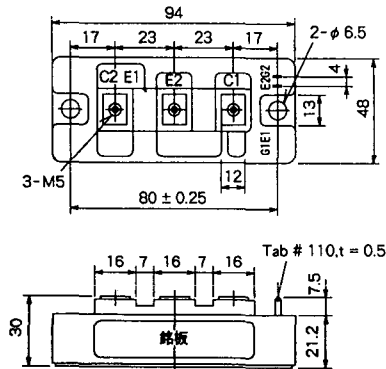
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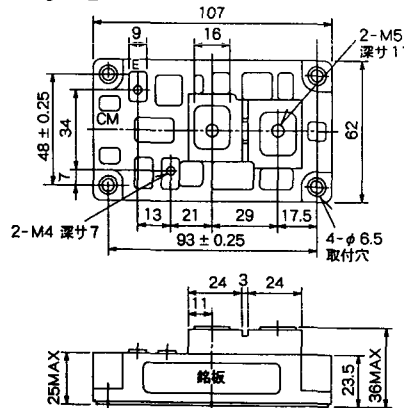
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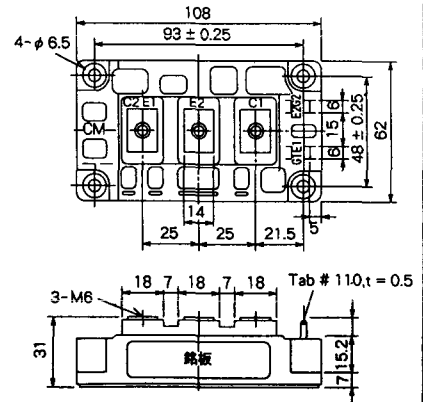
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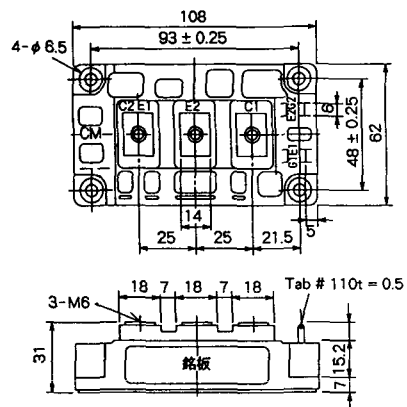
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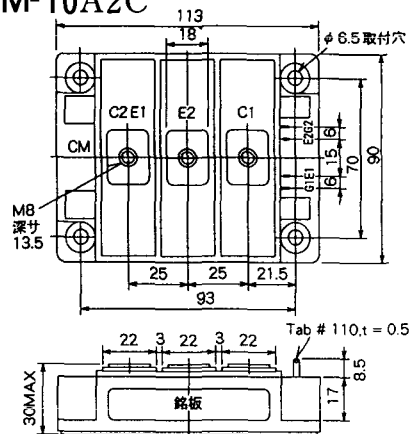
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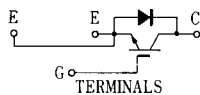
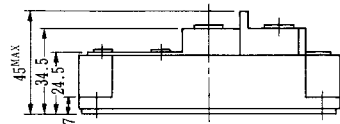
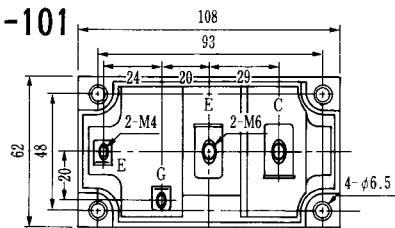
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M-10A2C



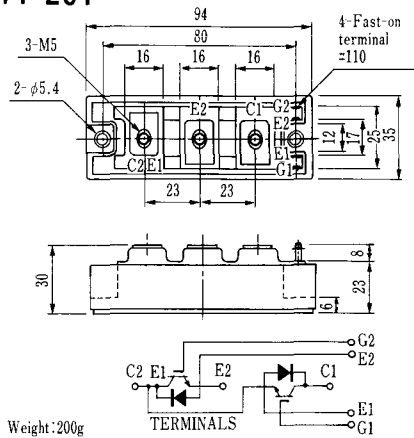
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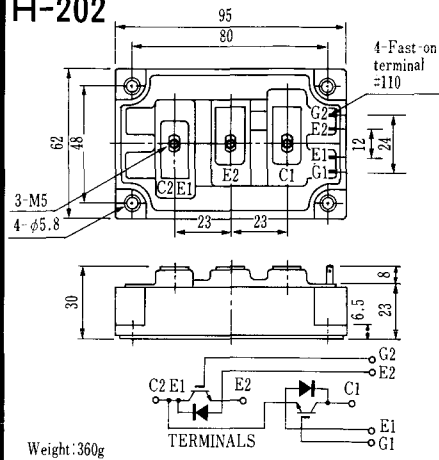
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TERMINALS

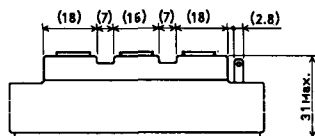
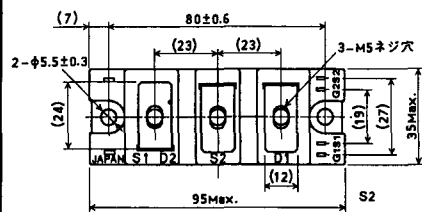
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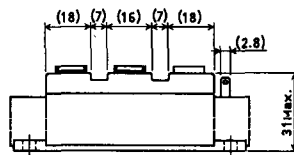
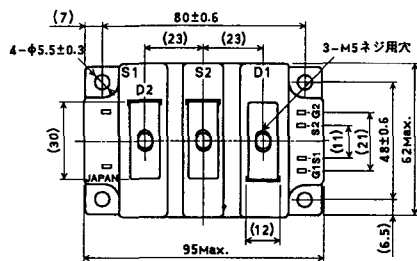
H-202



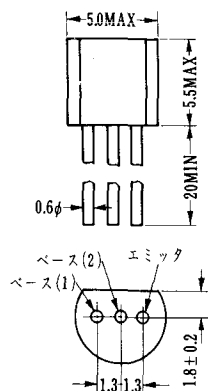
LF-J



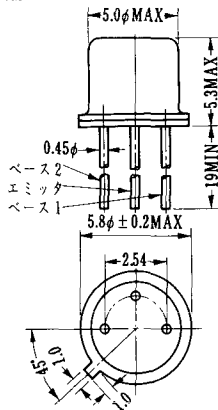
LF-K



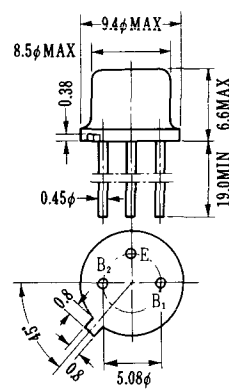
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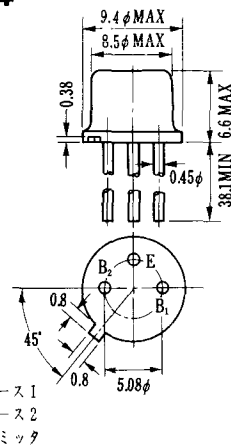
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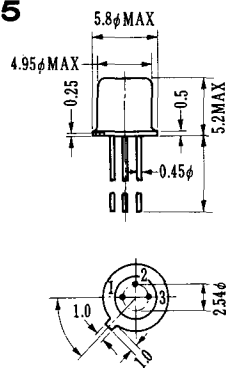
U-3



U-4

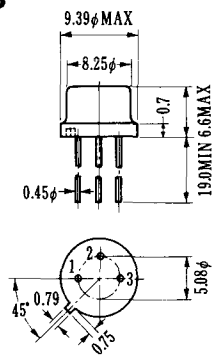


U-5



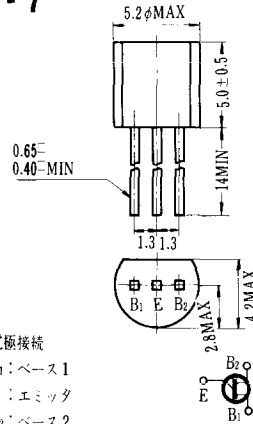
1. BASE 1
2. EMITTER
3. BASE 2 (CASE)

U-6



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

U-7



U-8

