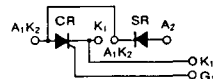


・イリスタ・モジュール

TM130RZ-M, -H

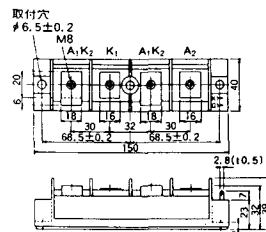
- 大電力一般用
- 絶縁形（主端子～ケース間 2000V）

■接続図



三 菱

■外形図



■最大定格

記号	TM130RZ-M	TM130RZ-H	単位
V_{RRM}	480	960	V
V_{IRM}	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_{DM}	10		W
P_{DAV}	3		W
V_{GEM}	5		V
I_{GEM}	4		A
T_J	-40 ~ +125		$^\circ\text{C}$
T_{stg}	-40 ~ +125		$^\circ\text{C}$

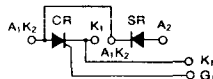
■電気的特性

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}	$R_L = 2\Omega$			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
I_H					mA
R_{th}	接合部～ケース間			0.22	$^\circ\text{C}/\text{W}$

TM130RZ-24, -2H

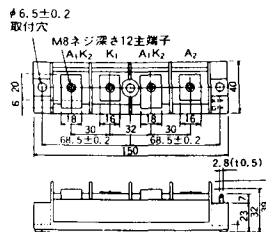
- 高圧大電力一般用
- 絶縁形（主端子～ケース間 2500V）

■接続図



三 菱

■外形図



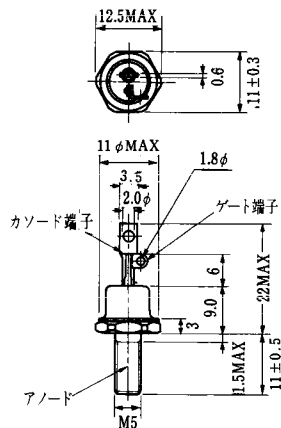
■最大定格

記号	TM130RZ-24	TM130RZ-2H	単位
V_{RRM}	1350	1700	V
V_{IRM}	1200	1600	V
V_{DRM}	1200	1600	V
I_{TAV}	130 (単相半波, $T_J = 78^\circ\text{C}$)		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_{DM}	10		W
P_{DAV}	3		W
V_{GEM}	5		V
I_{GEM}	4		A
T_J	-40 ~ +125		$^\circ\text{C}$
T_{stg}	-40 ~ +125		$^\circ\text{C}$

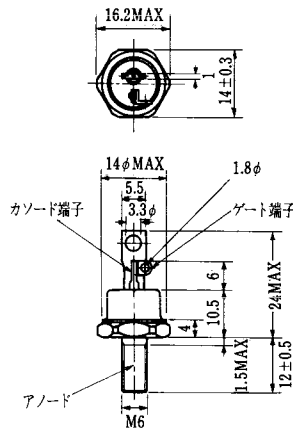
■電気的特性

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}	$R_L = 2\Omega$			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
I_H					mA
R_{th}	接合部～ケース間			0.22	$^\circ\text{C}/\text{W}$

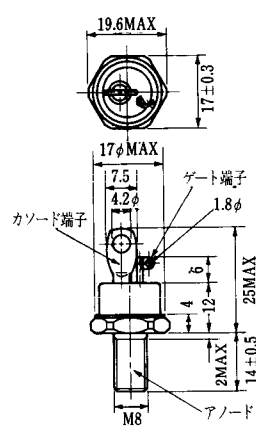
FD-1



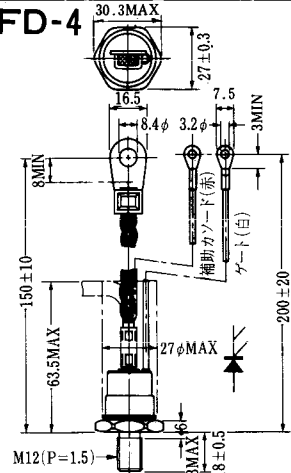
FD-2



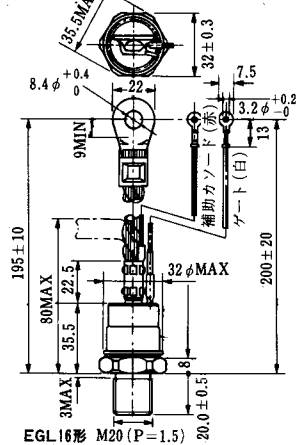
FD-3



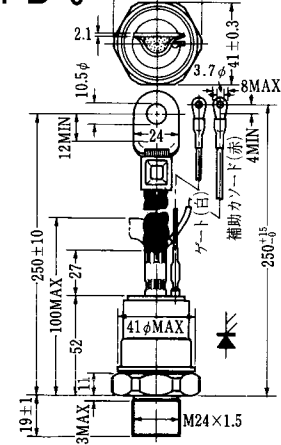
FD-4



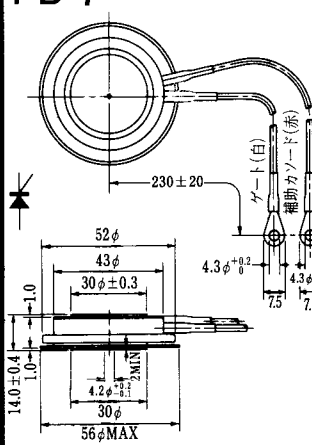
FD-5



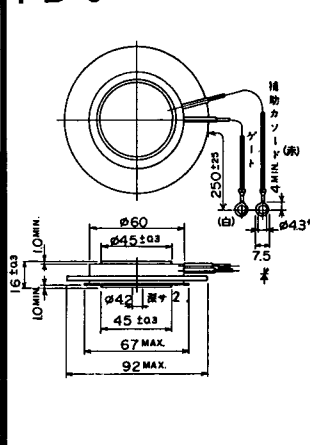
FD-6



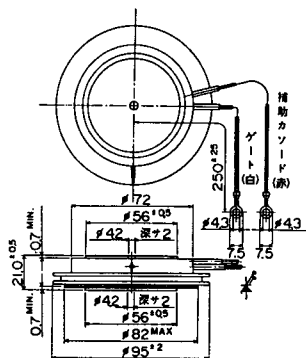
FD-7



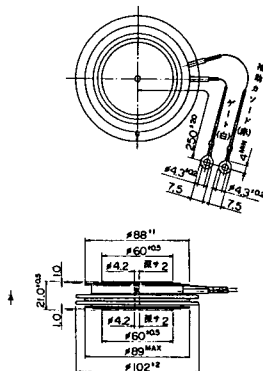
FD-8



FD-9



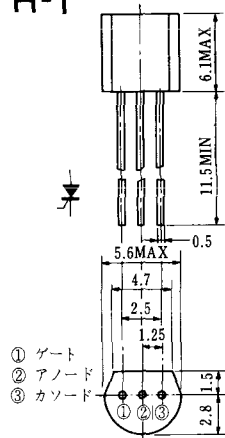
FD-10



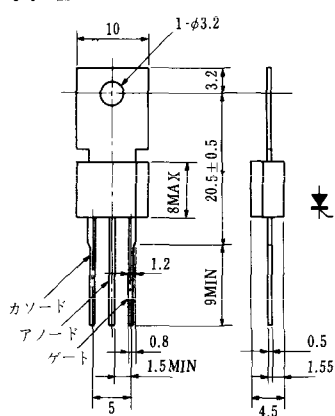
FD-11

FD-12

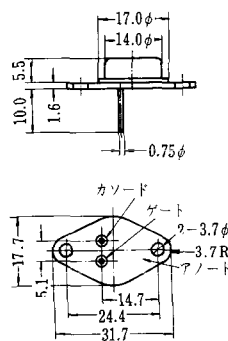
H-1



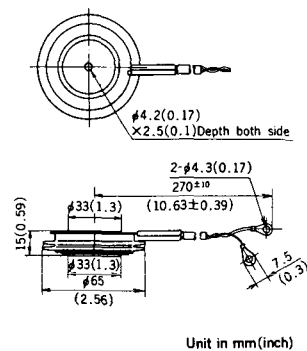
H-2



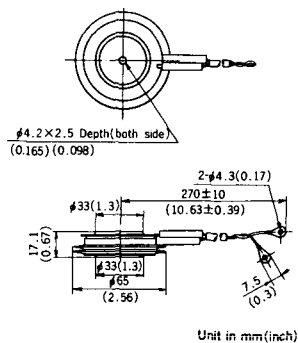
H-3



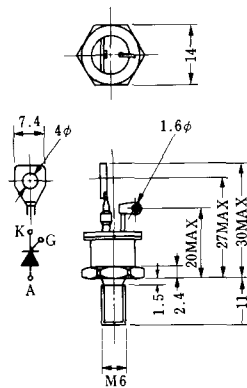
H-4



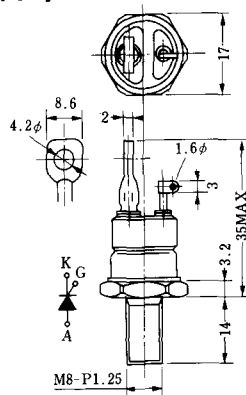
H-5



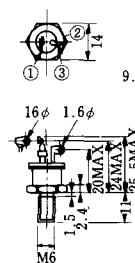
H-6



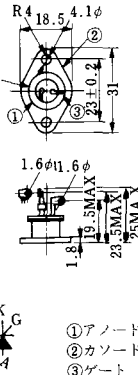
H-7



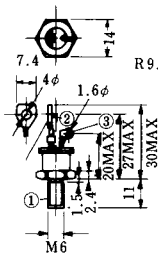
H-8A



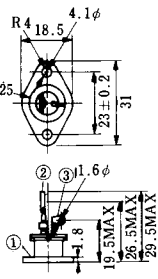
H-8B



H-9A

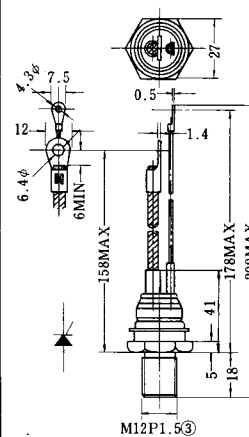


H-9B

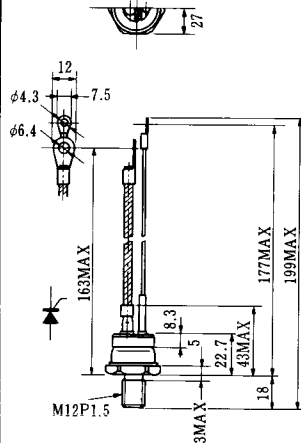


- ① アノード
- ② カソード
- ③ ゲート

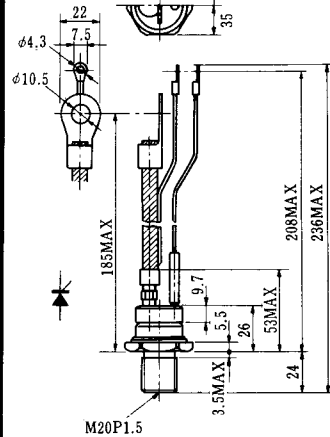
H-10



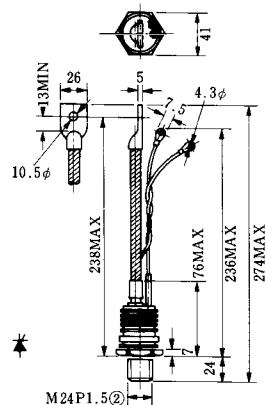
H-11



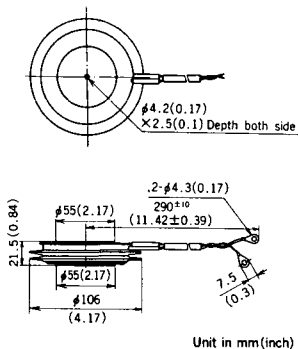
H-12



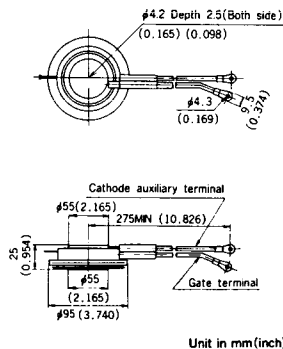
H-13



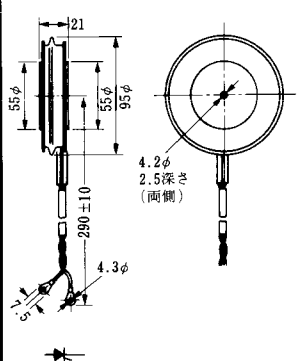
H-14



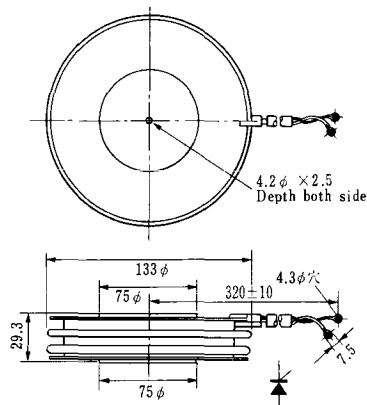
H-15



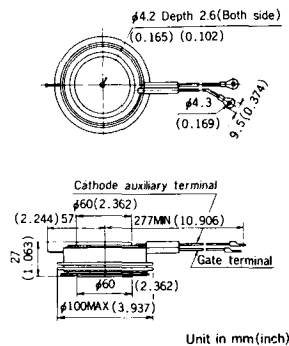
H-16



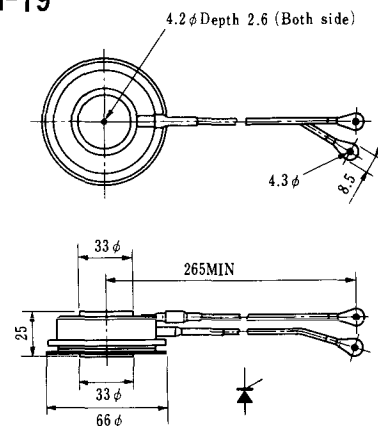
H-17



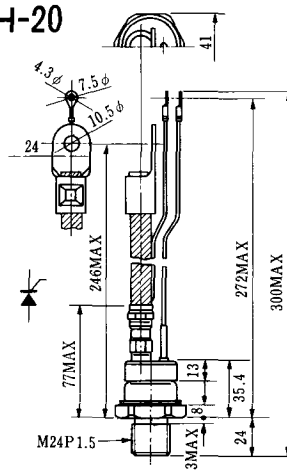
H-18



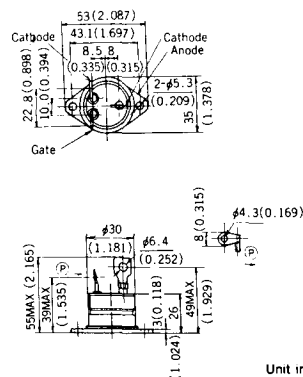
H-19



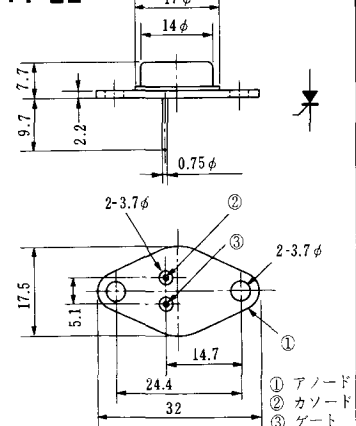
H-20



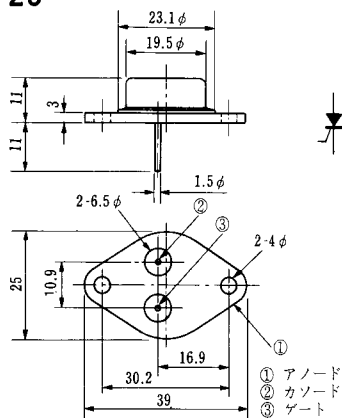
H-21



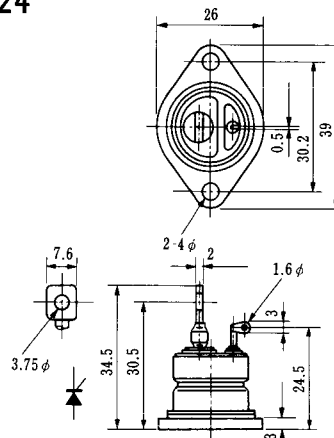
H-22



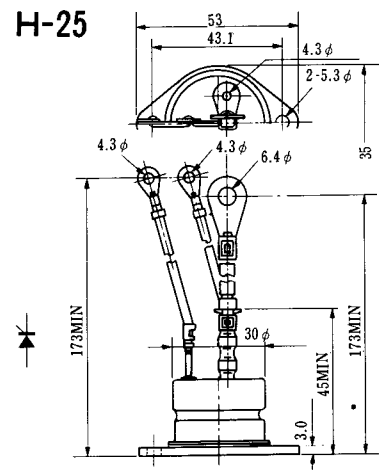
H-23



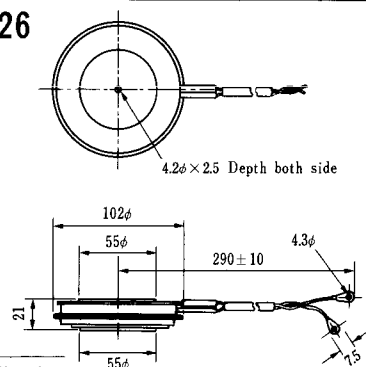
H-24



H-25

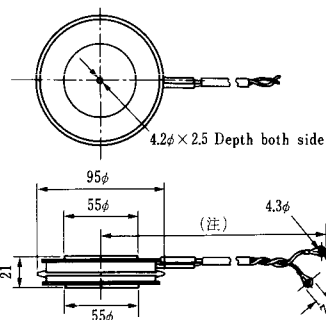


H-26



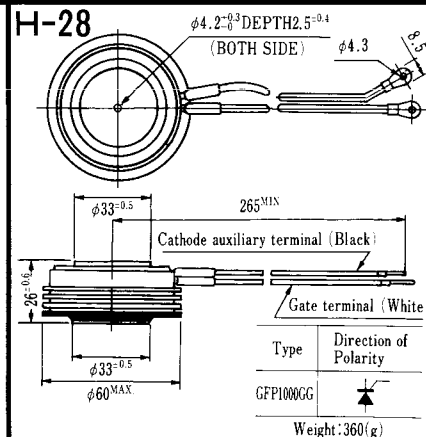
Type	Direction of polarity
CA12	

H-27



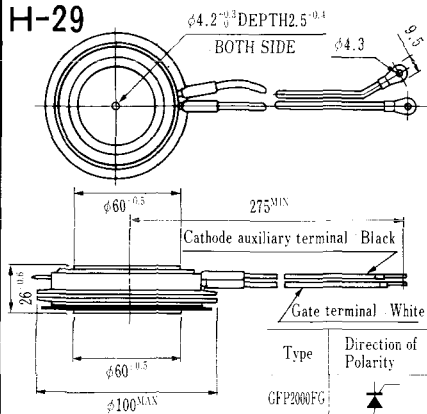
Type	Direction of polarity
CF11V	

H-28



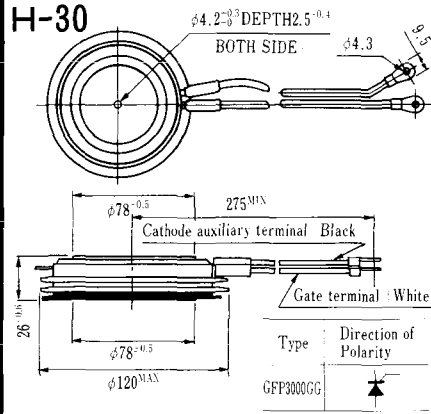
Note: The thickness is a dimension in press at the rated mounting force.

H-29



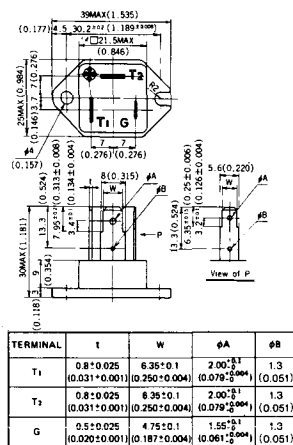
Note : The thickness is a dimension in press at the rated mounting force. Weight: 870(g)

H-30



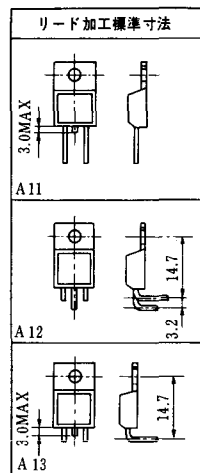
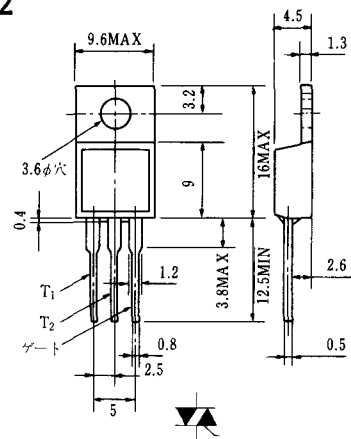
Note : The thickness is a dimension in press at the rated mounting force. Weight: 1,460(g)

HT-1

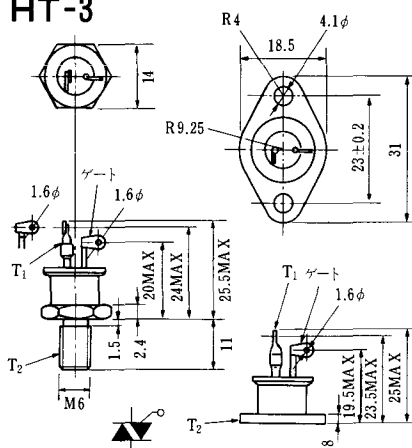


Unit in mm (inch)

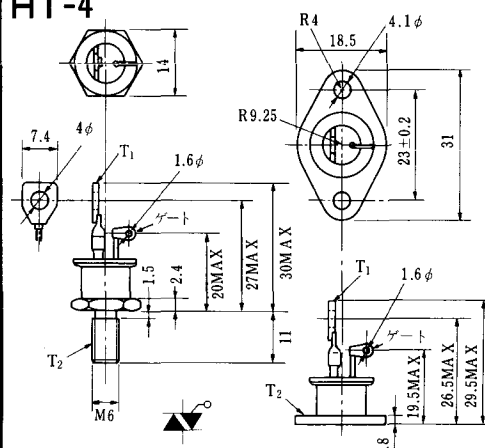
HT-2



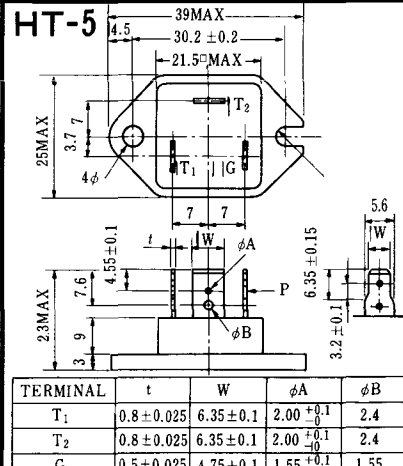
HT-3



HT-4

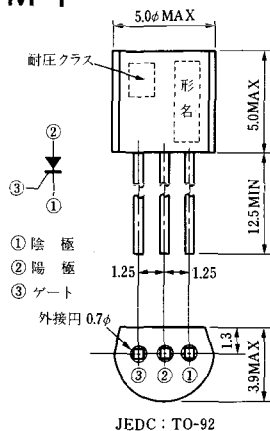


HT-5

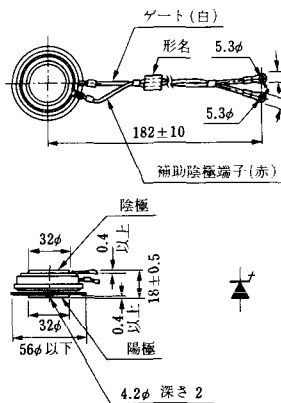


《寸法図単位：mm》

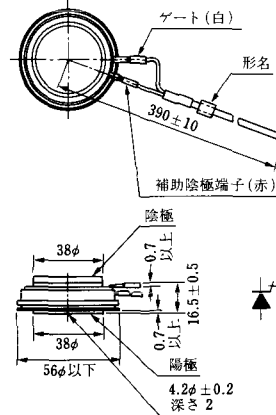
M-1



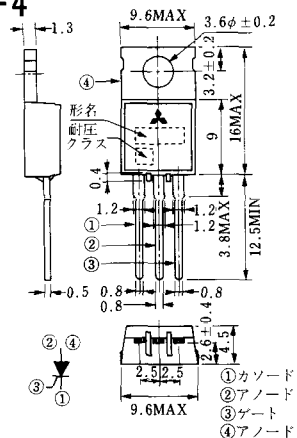
M-2



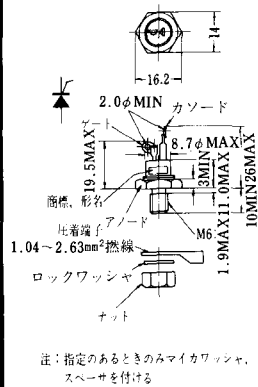
M-3



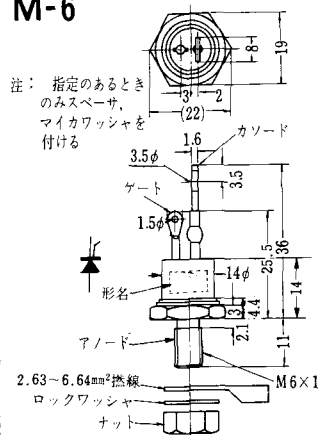
M-4



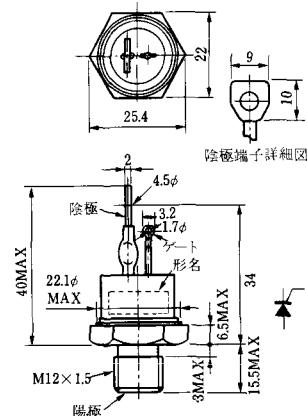
M-5



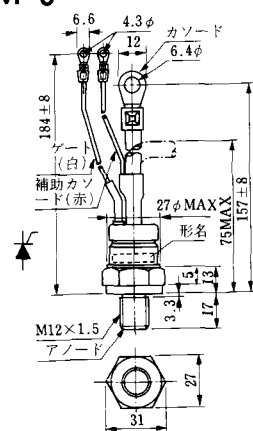
M-6



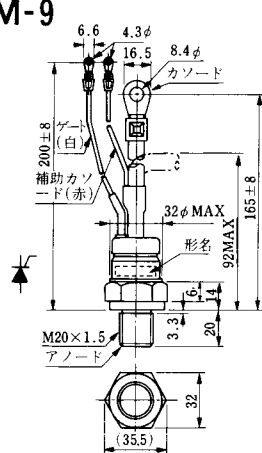
M-7



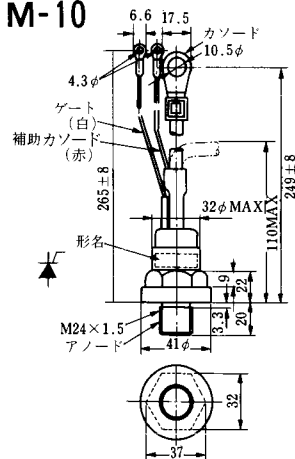
M-8



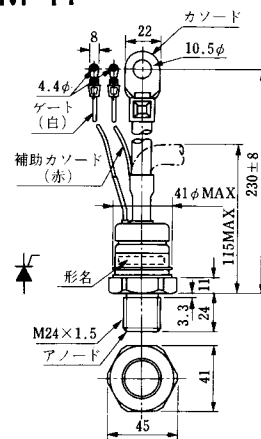
M-9



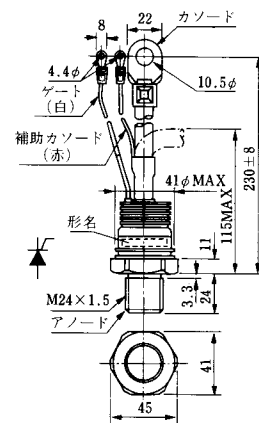
M-10



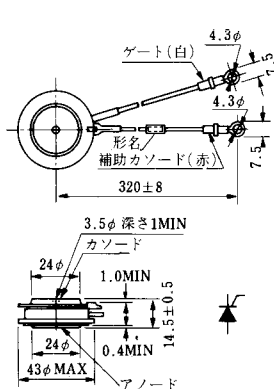
M-11



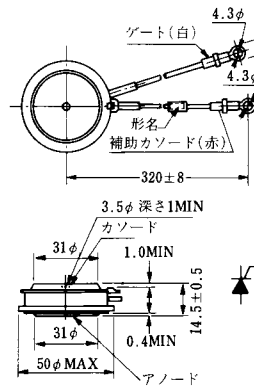
M-12



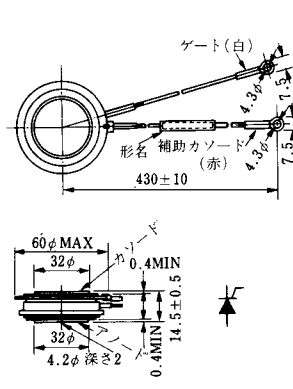
M-13



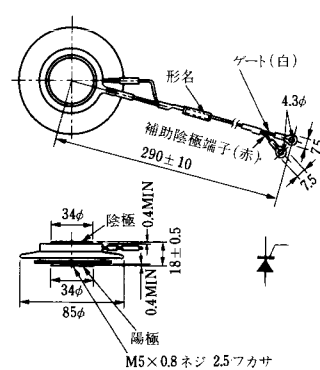
M-14



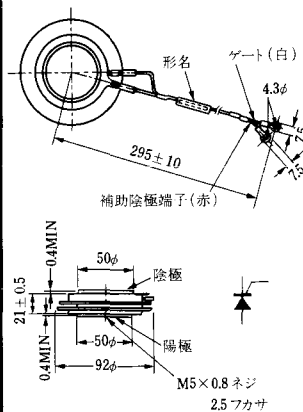
M-15



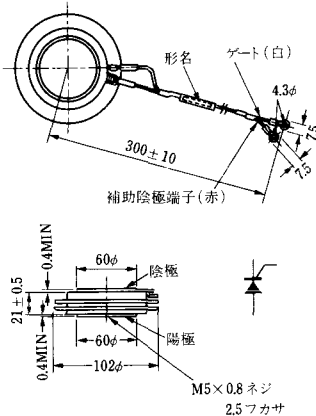
M-16



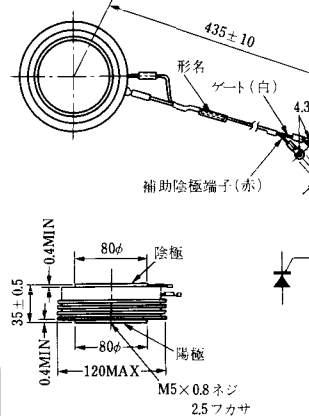
M-17



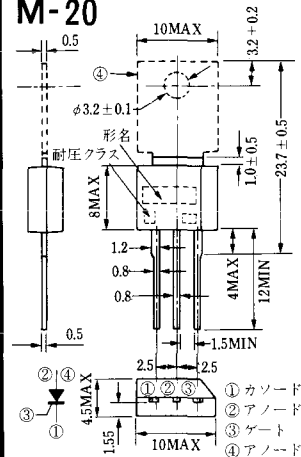
M-18



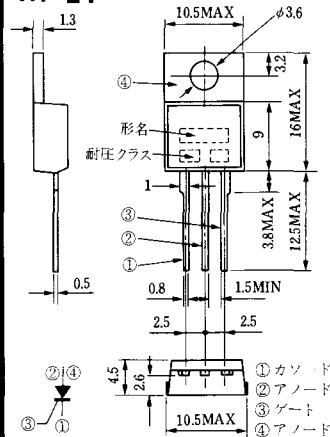
M-19



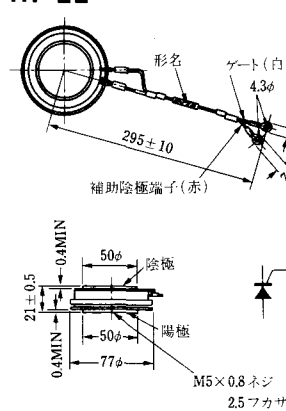
M-20



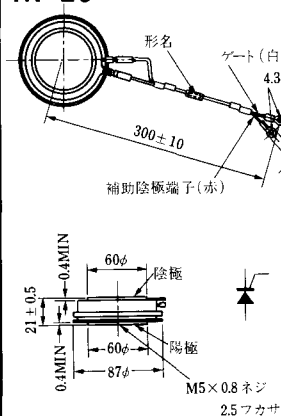
M-21



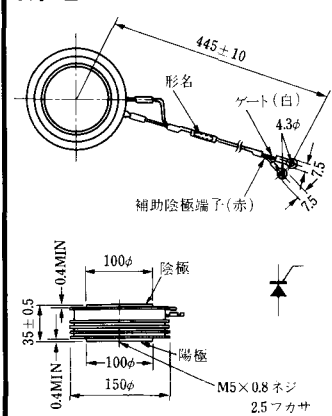
M-22



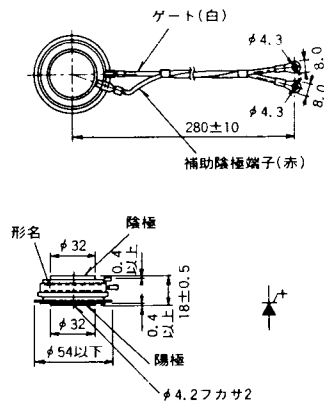
M-23



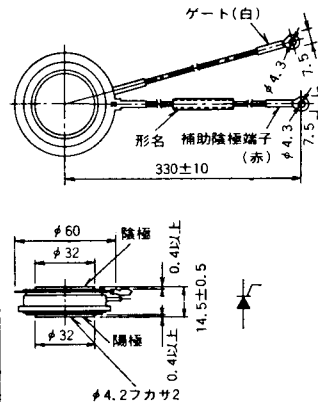
M-24



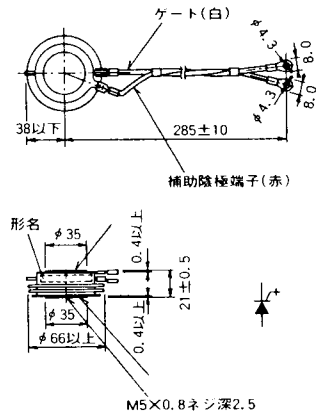
M-25



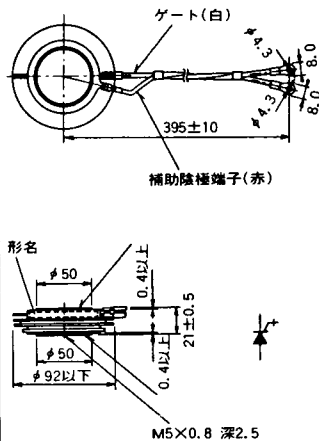
M-26



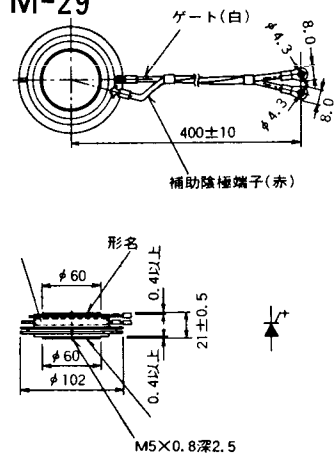
M-27



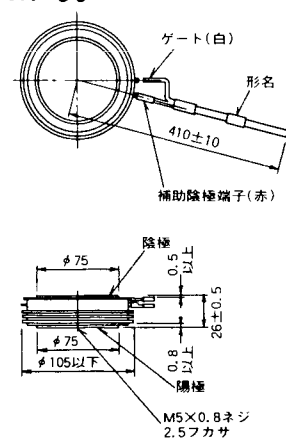
M-28



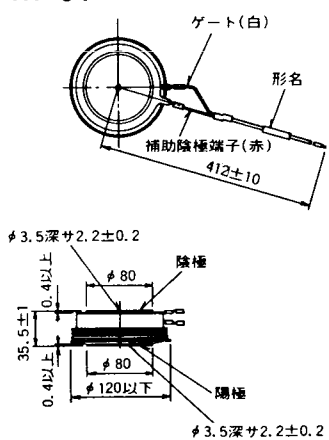
M-29



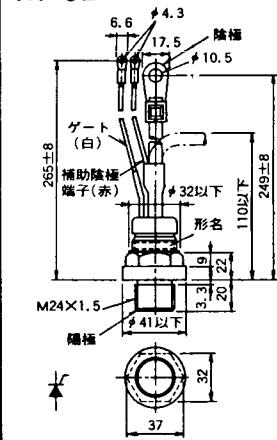
M-30



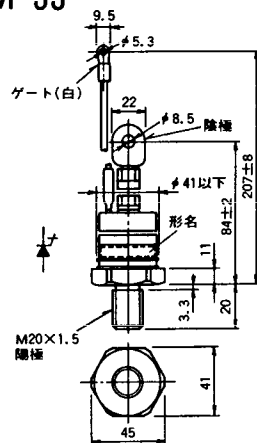
M-31



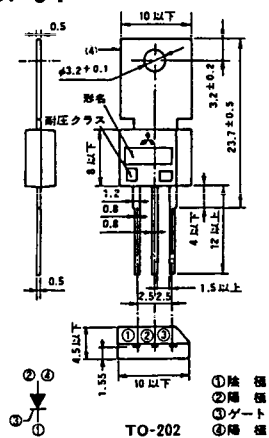
M-32



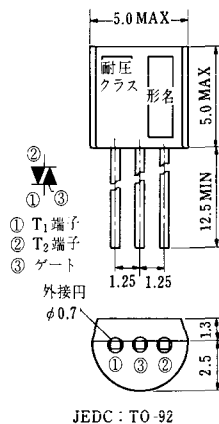
M-33



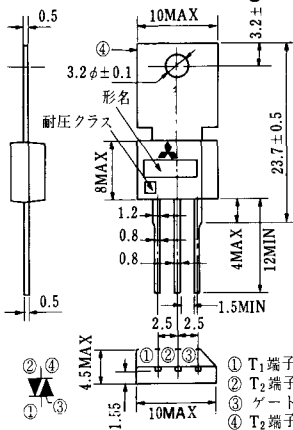
M-34



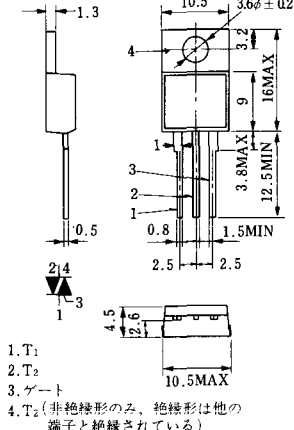
MT-1



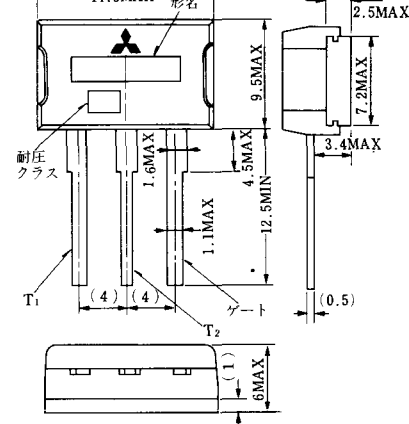
MT-2



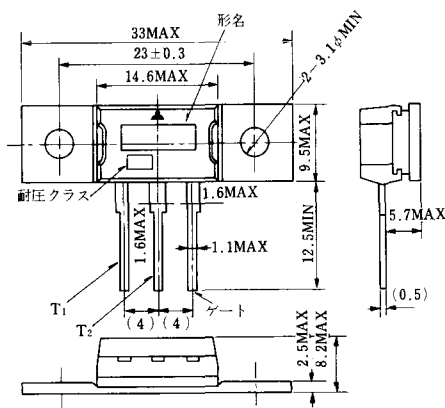
MT-3



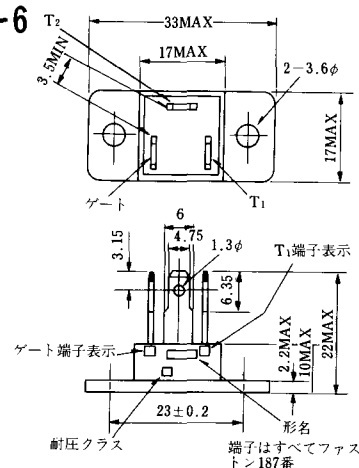
MT-4



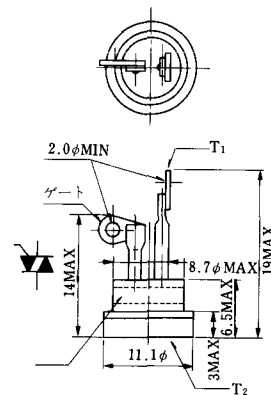
MT-5



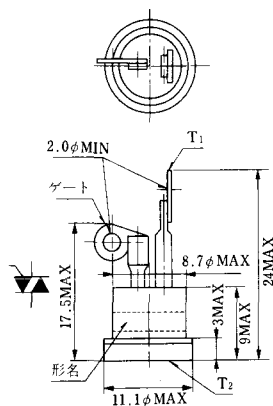
MT-6



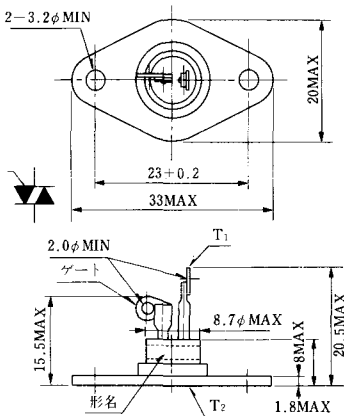
MT-7



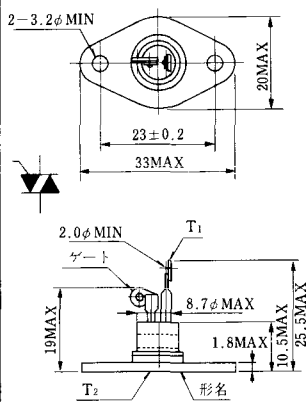
MT-8



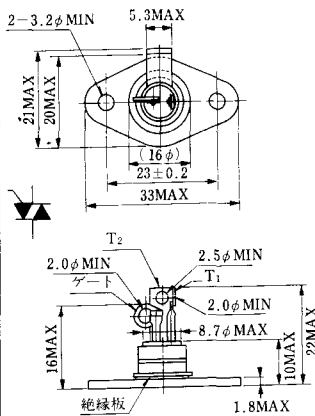
MT-9



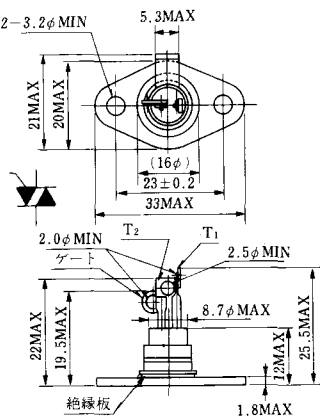
MT-10



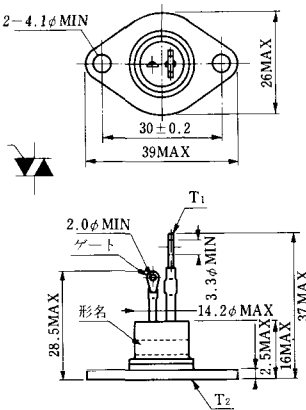
MT-11



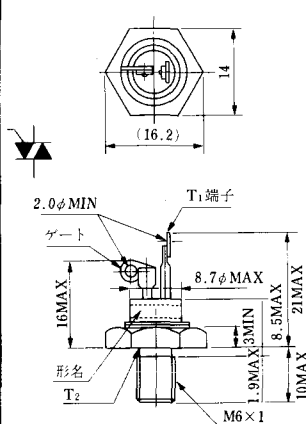
MT-12



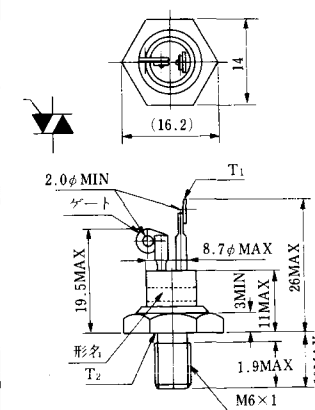
MT-13



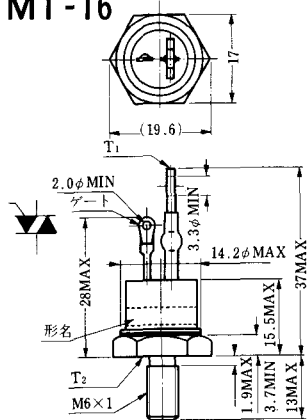
MT-14



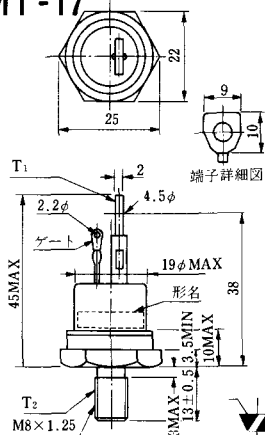
MT-15



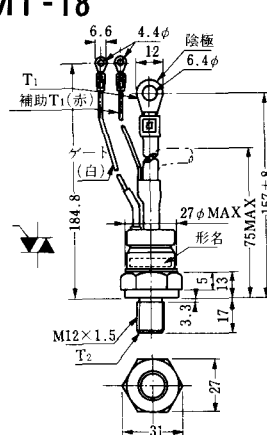
MT-16



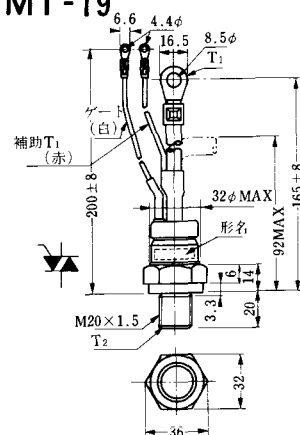
MT-17



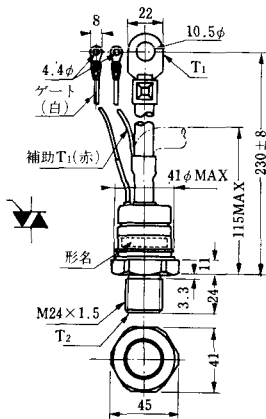
MT-18



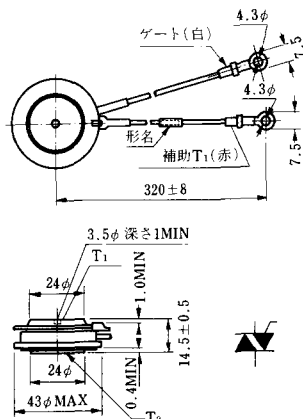
MT-19



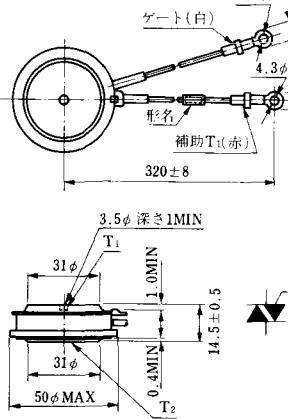
MT-20



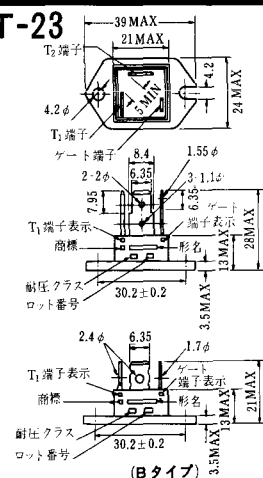
MT-21



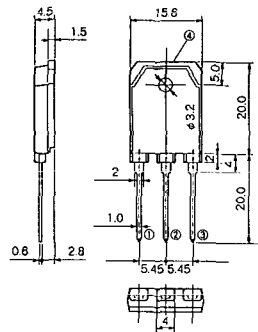
MT-22



MT-23



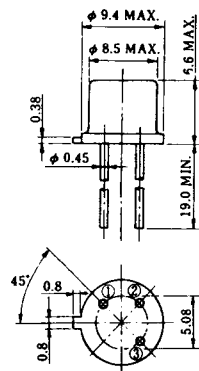
MT-24



TO - 3P

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

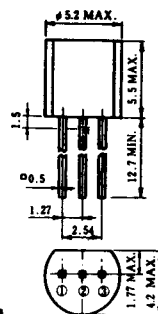
N-1



電極接続

- ① カソード
- ② ゲート
- ③ アノード

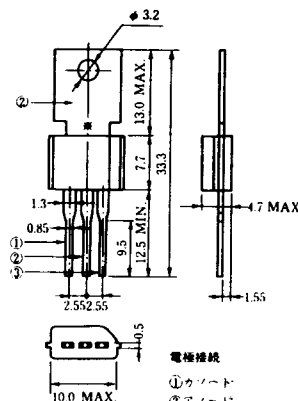
N-2



電極接続

- ① ゲート
- ② アノード
- ③ カソード

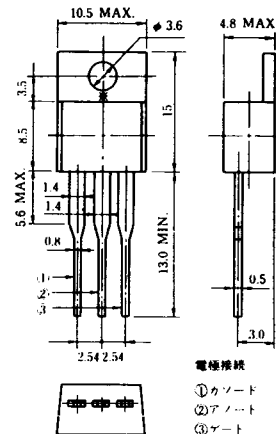
N-3



電極接続

- ① カソード
- ② アノード
- ③ ゲート

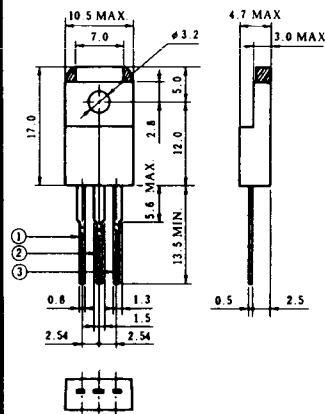
N-4



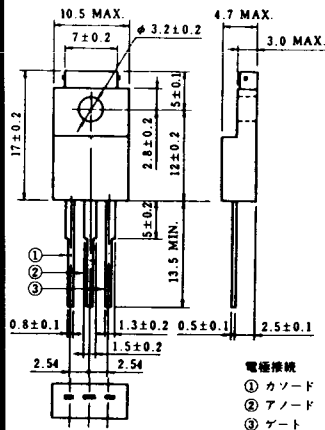
電極接続

- ① カソード
- ② アノード
- ③ ゲート

N-5



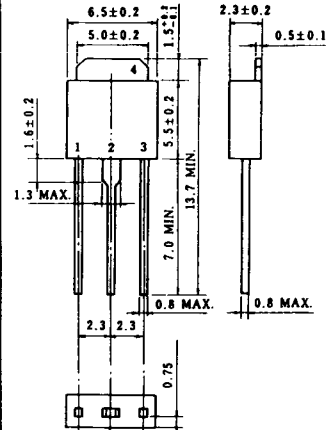
N-6



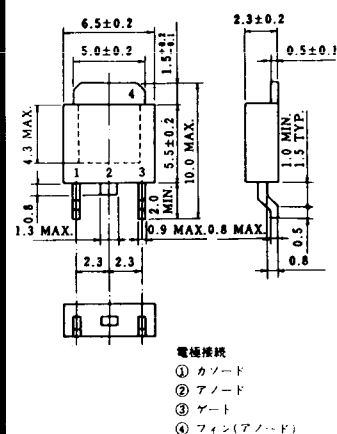
電極接続

- ① カソード
- ② アノード
- ③ ゲート

N-7



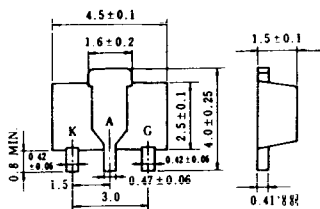
N-8



電極接続

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

N-9



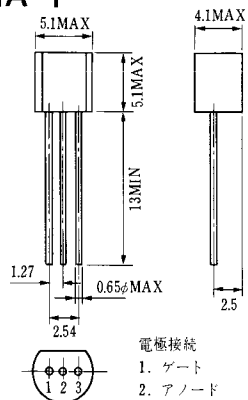
電極接続

K : カソード

A : アノード

G : ゲート

NA-1

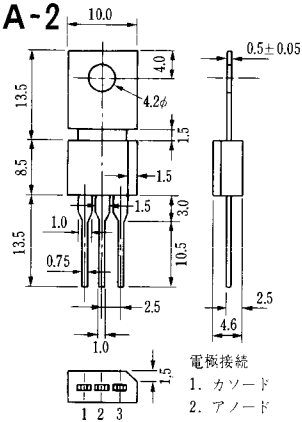


電極接続

1. ゲート
2. アノード
3. カソード

JEDEC: TO-92

NA-2



電極接続

1. カソード
2. アノード
3. ゲート

JEDEC: TO-202AA



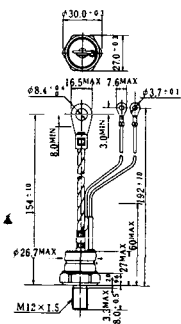
29RD



39RC
59RC
39RF
59RF

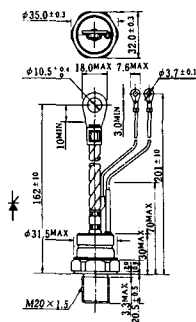


68RP, 88RP, 108RP, 68RS,
88RS, 78RT, 88RLD, 88RLE,
88RLF, 88RLG, 88RLH, 108RLE



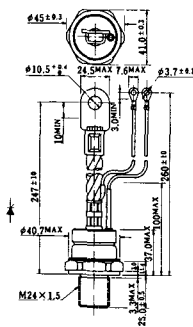
NI-5

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



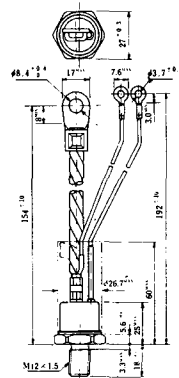
NI-6

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



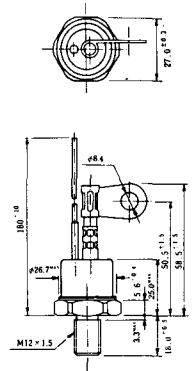
NI-7

89RW^r L
129RW^r L



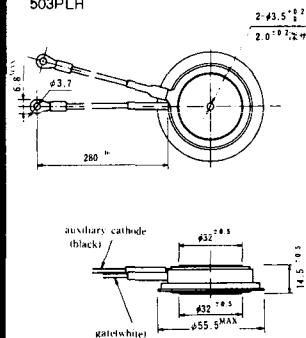
NI-8

89RW
129RW



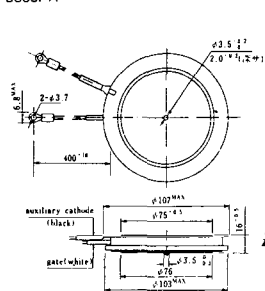
NI-16

503PLF
503PLH



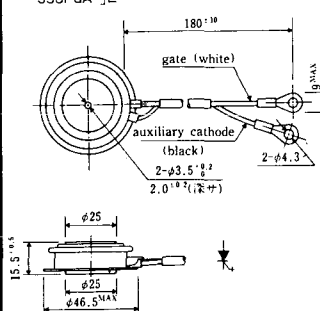
NI-17

3003PA



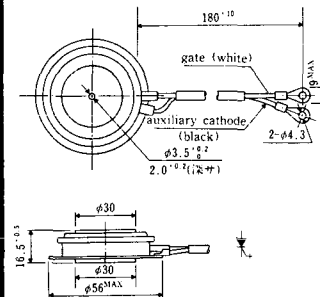
NI-18

353PGA「E



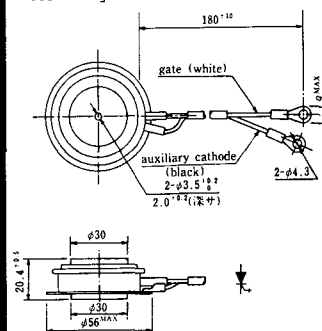
NI-19

603PGA, 603PGA「A, 803PGA



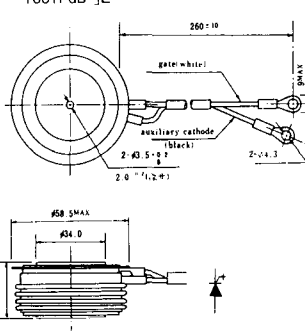
NI-20

603PGA「E



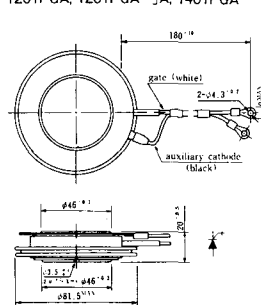
NI-21

1001PGB「E



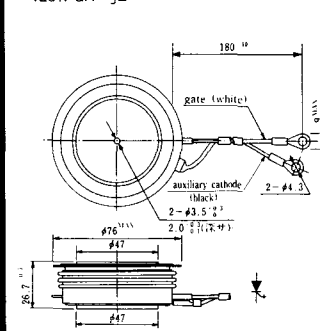
NI-22

1201PGA, 1201PGA「A, 1401PGA



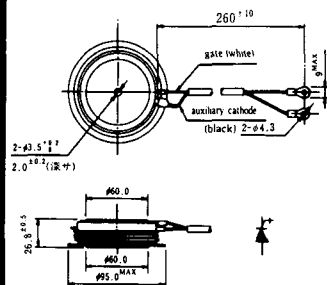
NI-23

1201PGA「E



NI-24

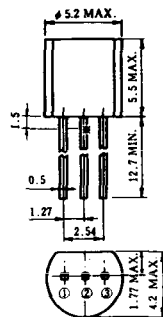
2001PGB[®] JE



NI-25

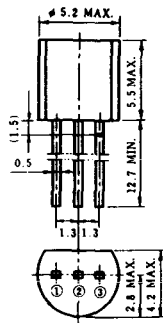
NI-26

NT-1



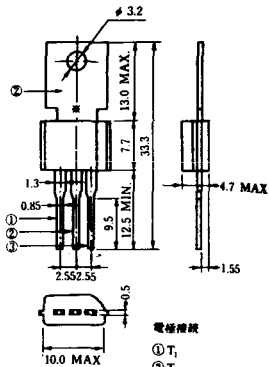
電線接続
① T₁
② ゲート
③ T₂

NT-2



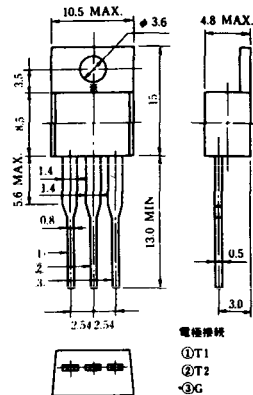
電線接続
① T₁
② ゲート
③ T₂

NT-3



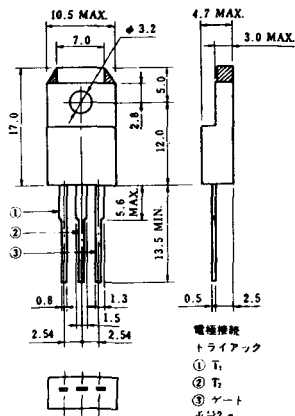
電線接続
① T₁
② T₂
③ ゲート

NT-4



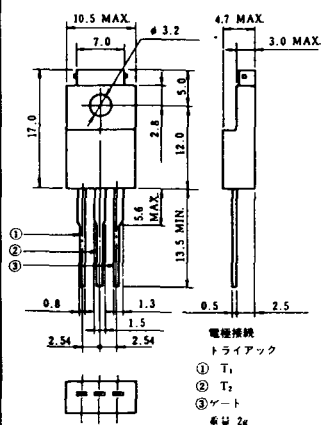
電線接続
① T₁
② T₂
③ G

NT-5



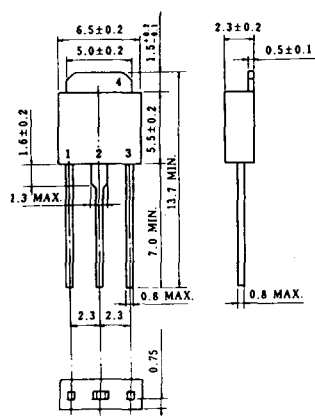
電線接続
トリアック
① T₁
② T₂
③ ゲート
※ 2g

NT-6

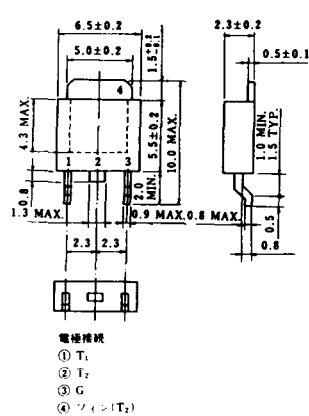


電線接続
トリアック
① T₁
② T₂
③ ゲート
※ 2g

NT-7

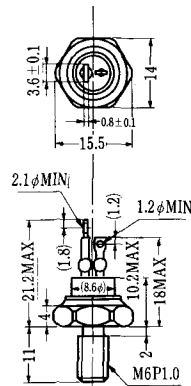


NT-8

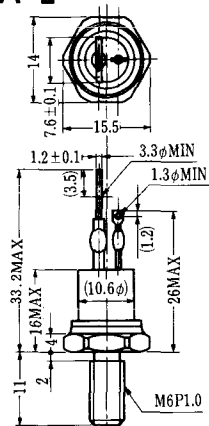


電線接続
① T₁
② T₂
③ G
④ フォン(T₂)

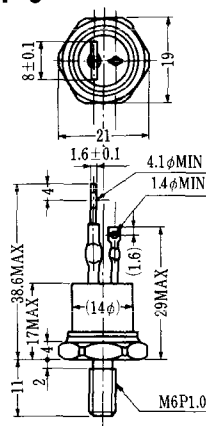
SA-1



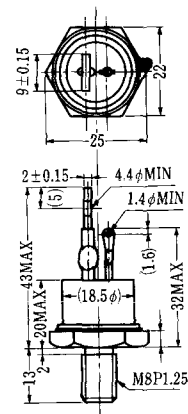
SA-2



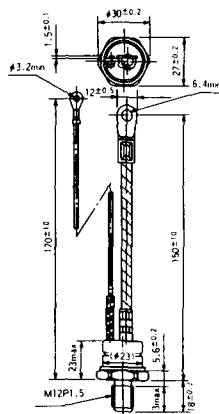
SA-3



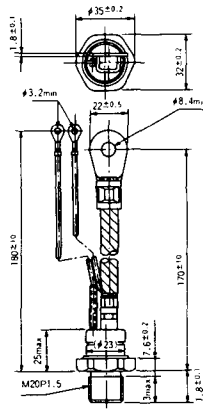
SA-4



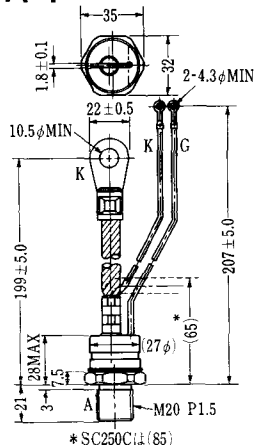
SA-5



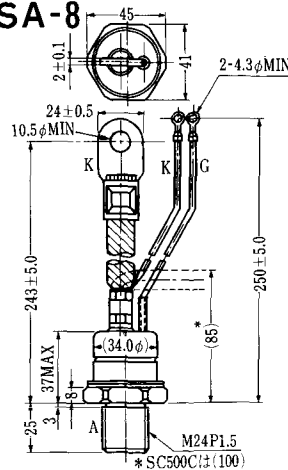
SA-6



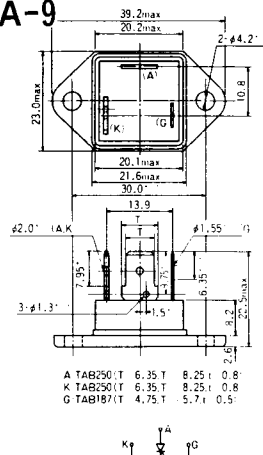
SA-7



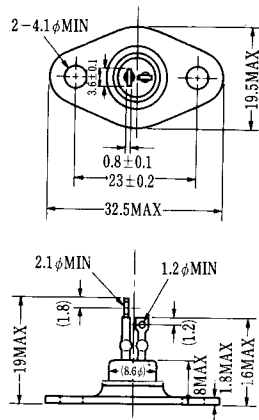
SA-8



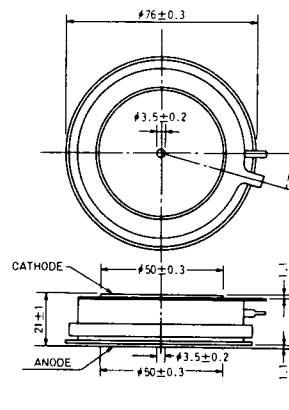
SA-9



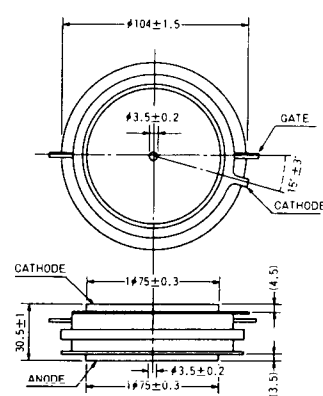
SA-10



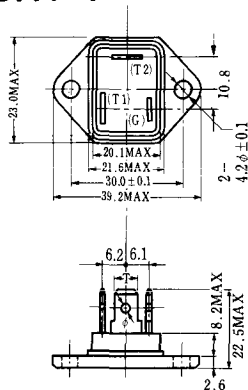
SA-11



SA-12

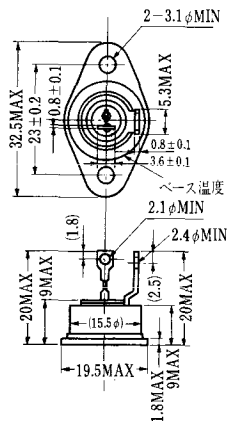


SAT-1

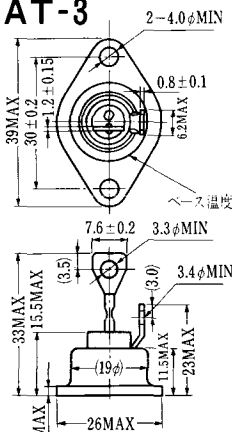


T1端子:ファストン250($T=6.35$, $t=0.8$, $\phi=1.65$)
T2端子:ファストン250($T=6.35$, $t=0.8$, $\phi=1.65$)
G端子:ファストン187($T=4.75$, $t=0.5$, $\phi=1.3$)

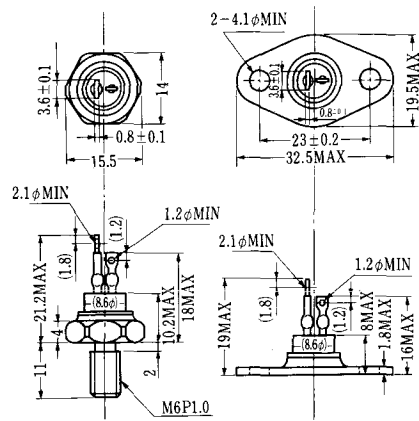
SAT-2



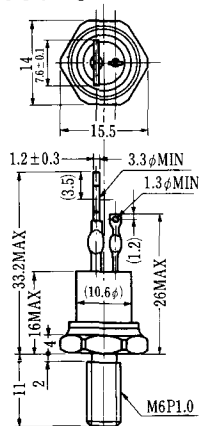
SAT-3



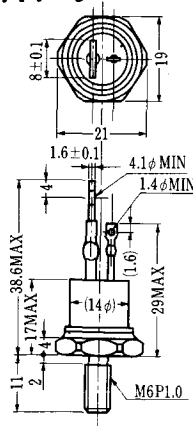
SAT-4



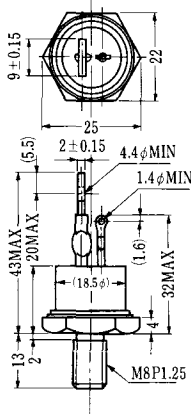
SAT-5



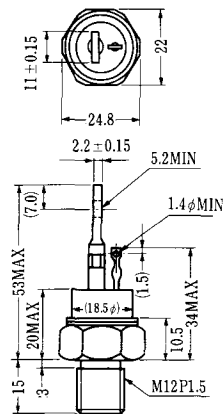
SAT-6



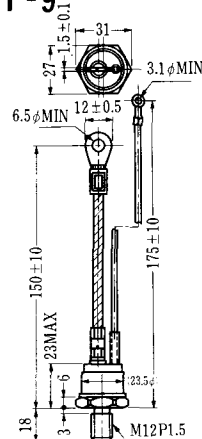
SAT-7



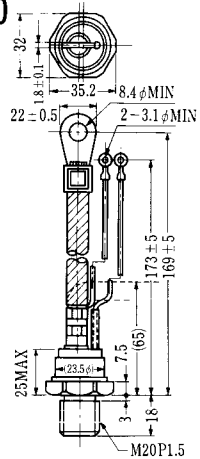
SAT-8



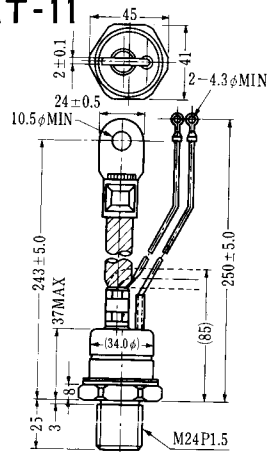
SAT-9.



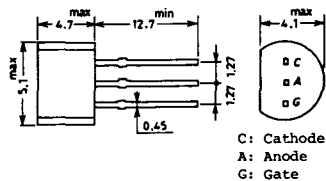
SAT-10



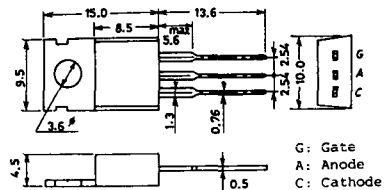
SAT-11



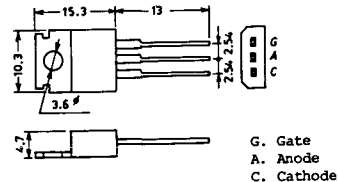
SY-1(1096A)



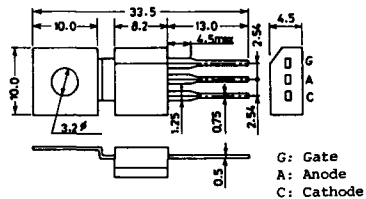
SY-2(1151)



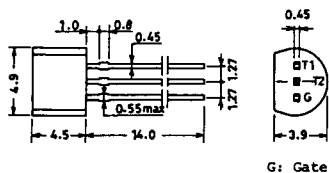
SY-3(1104)



SY-4(1150)

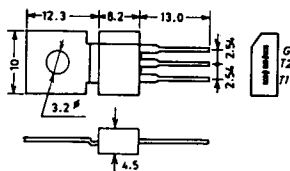


1097A

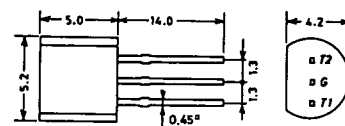


G: Gate

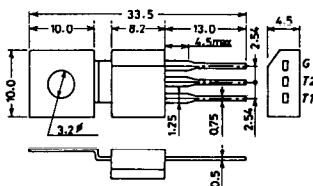
1102



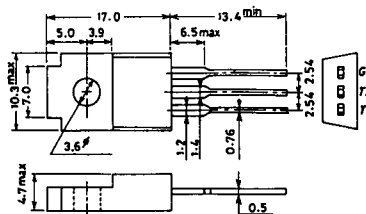
1141



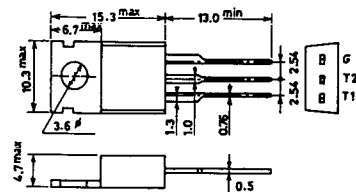
1142



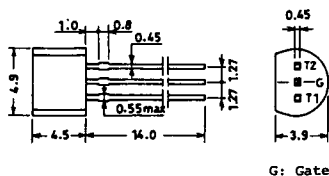
1144



1155

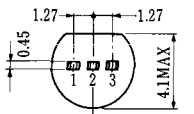
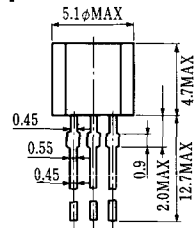


1192A



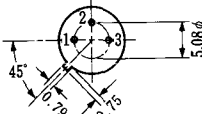
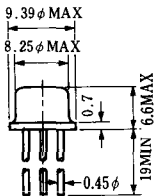
G: Gate

T-1 (13-5A1A)



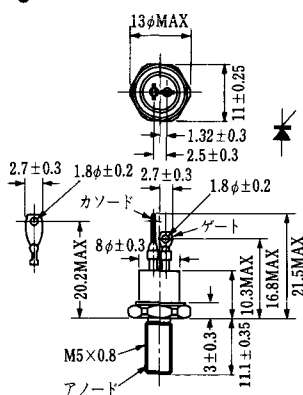
- 1 ゲート
- 2 アノード
- 3 カソード

T-2
(13-8A1A)

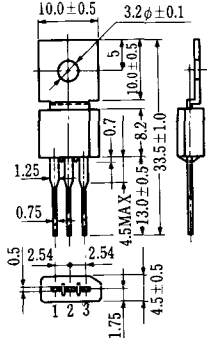


1. カソード
2. ゲート
3. アノード(ケース)

T-3 (13-8C1A)

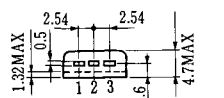
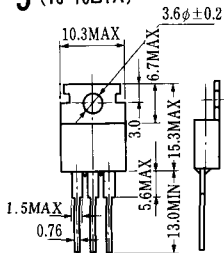


T-4 (13-10A1A)



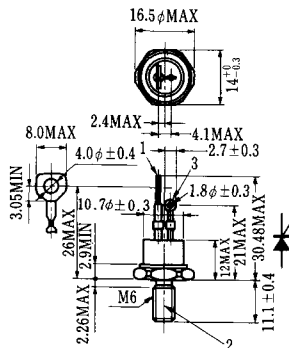
- 1 カソード
- 2 アノード
- 3 ゲート

T-5 (13-10B1A)



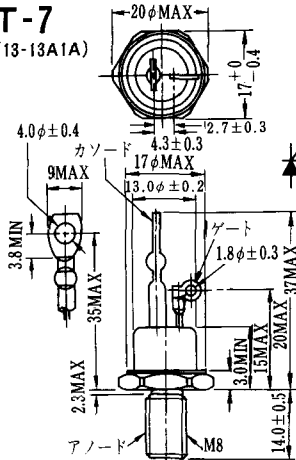
- 1 カソード
- 2 アノード
- 3 ゲート

T-6 (13-11D1A)



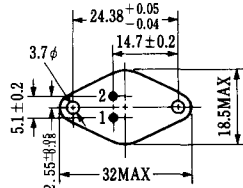
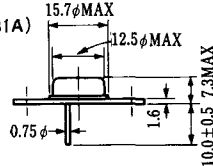
- 1 カソード
- 2 アノード
- 3 ゲート

T-7
(13-13A1A)



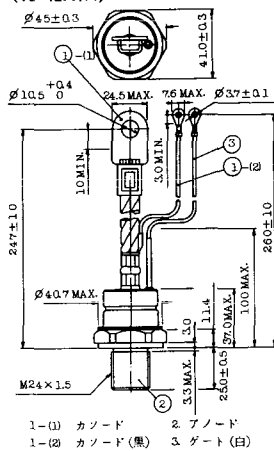
T-8

(13-13B1A)

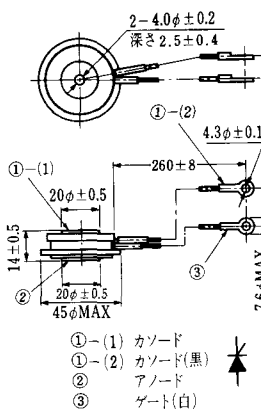


1. ゲート
2. カソード
アノード(ケース)

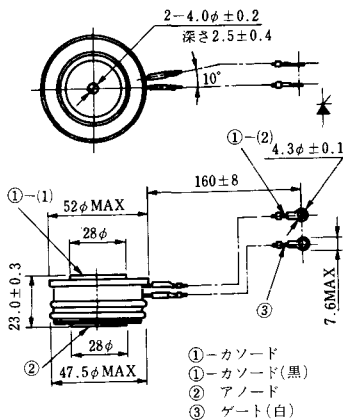
T-17 (13-42A1A)



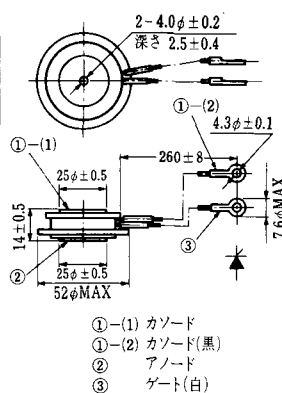
T-18 (13-45D1A)



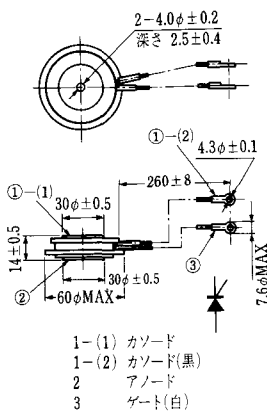
T-19 (13-52B1A)



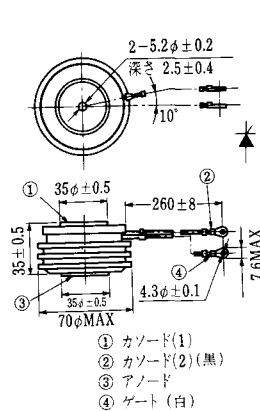
T-20 (13-52C1A)



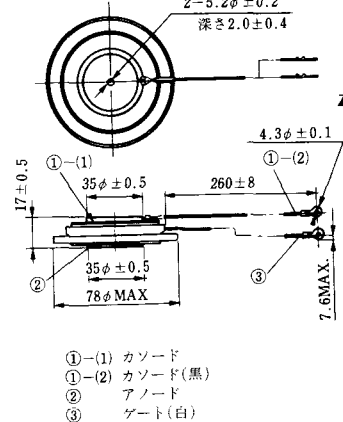
T-21 (13-60A1A)



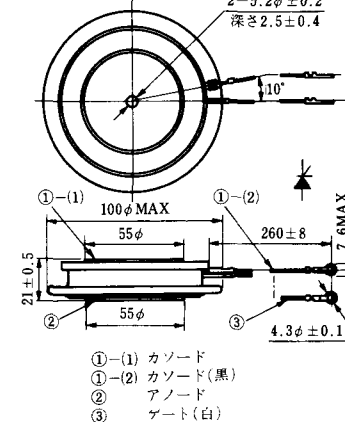
T-22 (13-70C1A)



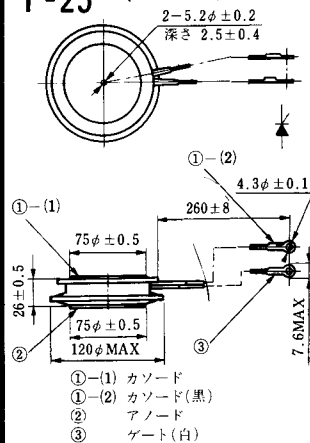
T-23 (13-78A1A)



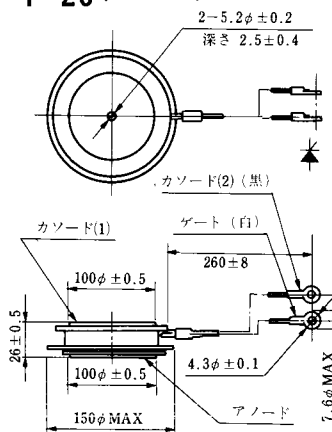
T-24 (13-100C1A)



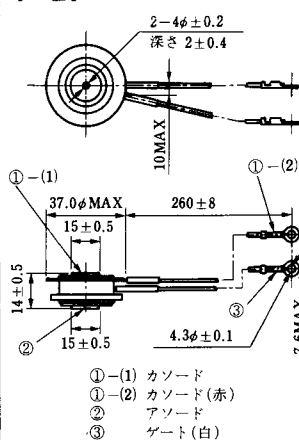
T-25 (13-120A2A)



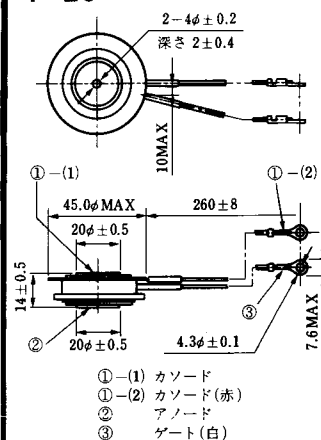
T-26 (13-150A1A)



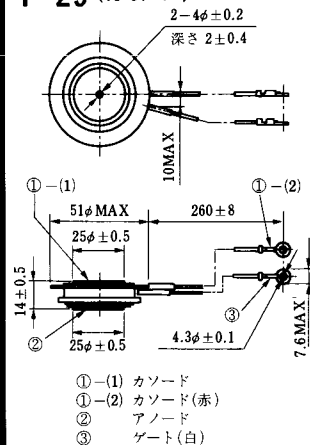
T-27 (13-37A1A)



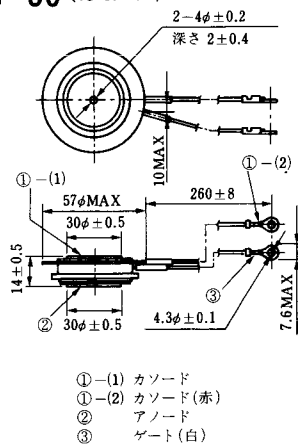
T-28 (13-45E1A)



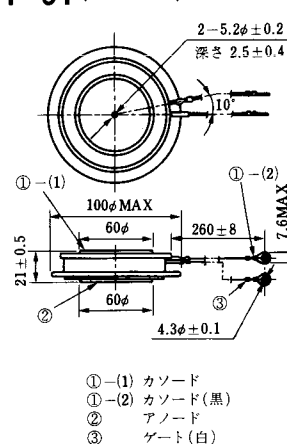
T-29 (13-51A1A)



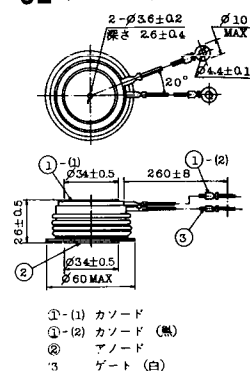
T-30 (13-57A1A)



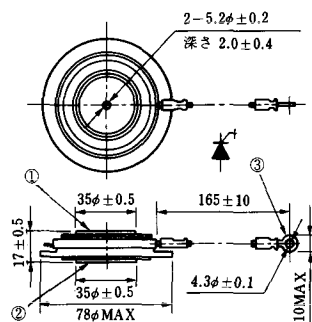
T-31 (13-100E1A)



T-32 (13-60E3A)

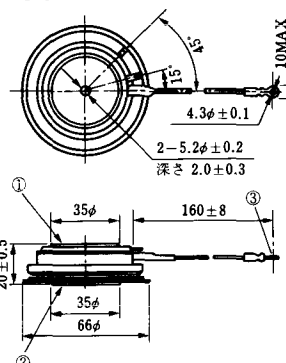


T-33 (13-78B1A)



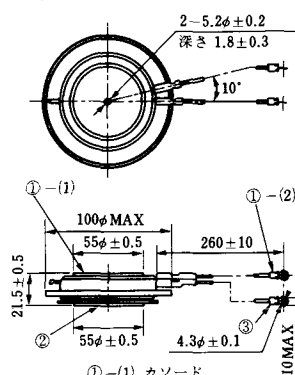
- ① カソード
② アノード
③ ゲート

T-34 (13-66A1A)



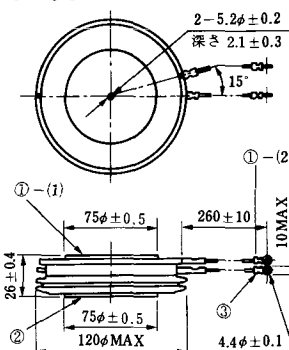
- ① カソード
② アノード
③ ゲート

T-35 (13-100D1A)



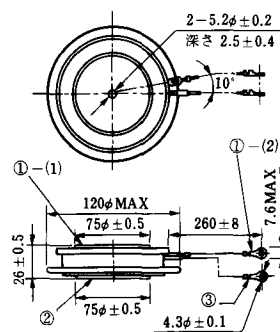
- ①-(1) カソード
①-(2) カソード(黒)
② アノード
③ ゲート(白)

T-36 (13-120E1A)



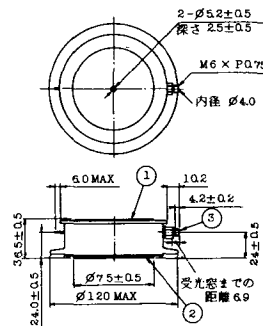
- ①-(1) カソード
①-(2) カソード(黒)
② アノード
③ ゲート(白)

T-37 (13-120A1A)



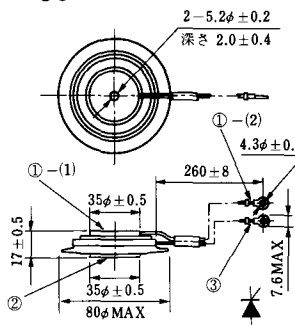
- ①-(1) カソード
①-(2) カソード(黒)
② アノード
③ ゲート(白)

T-38 (13-120C1A)



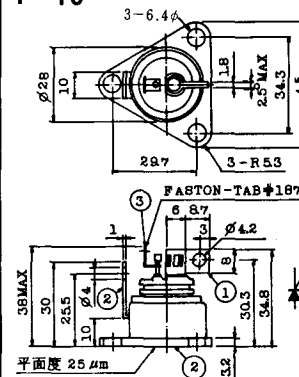
- ① カソード
② アノード
③ ゲート

T-39 (13-80B1A)



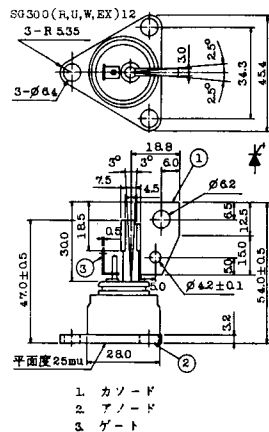
- ①-(1) カソード
①-(2) カソード(黒)
② アノード
③ ゲート(白)

T-40 (13-28A1A)

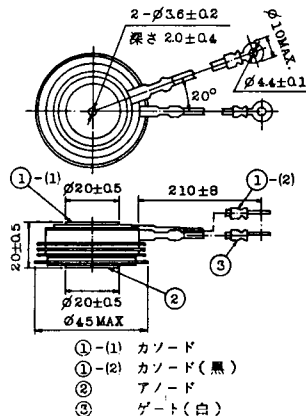


1. カソード
2. アノード
3. ゲート

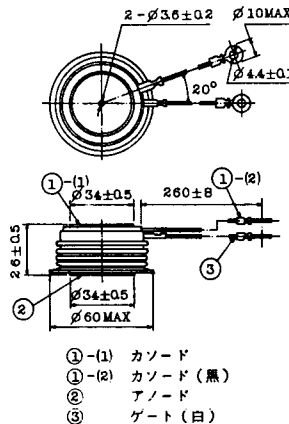
T-41 (13-28A2A)



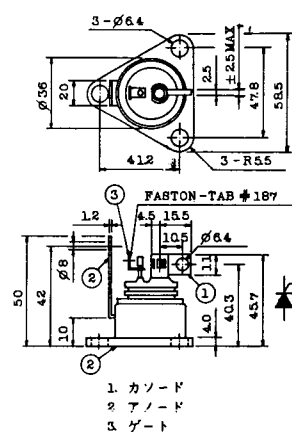
T-42 (13-45F1A)



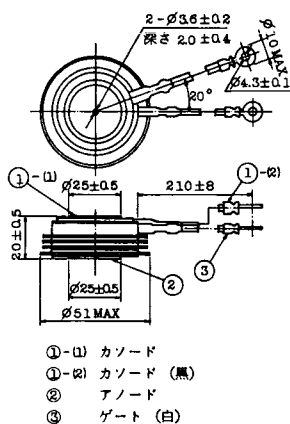
T-43 (13-60E2A)



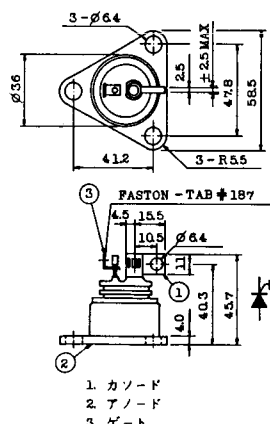
T-44 (13-36A1A)



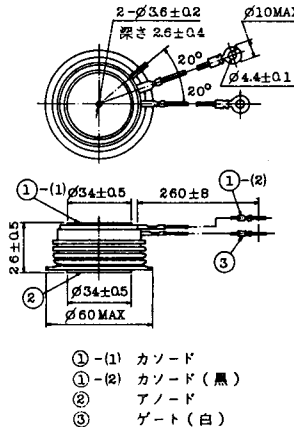
T-45 (13-51B1A)



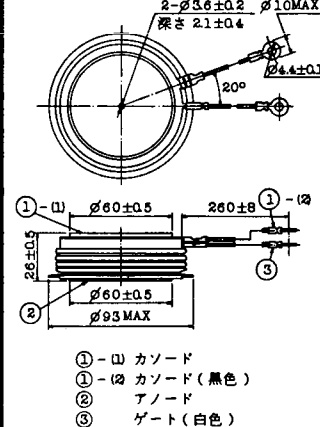
T-46 (13-36B1A)



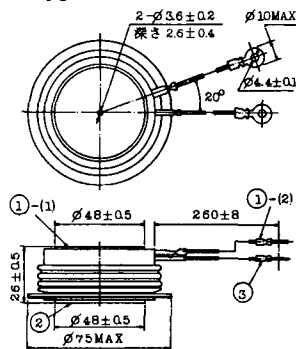
T-47 (13-60E1A)



T-48 (13-93C1A)

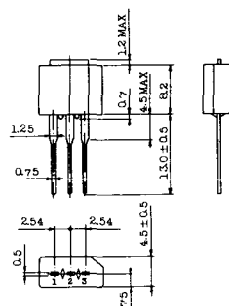


T-49 (13-75A1A)



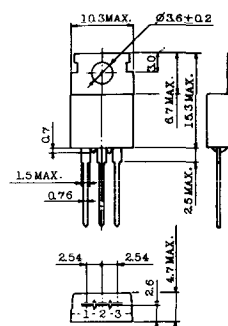
- 1 ①-(1) カソード
1 ①-(2) カソード (黒)
2 アノード
3 ゲート (白)

T-50 (13-10A3A)



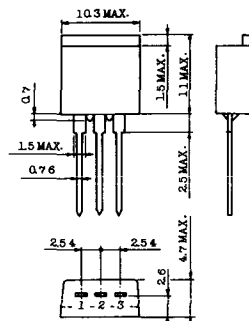
- 1 カソード
2 アノード
3 ゲート

T-51 (13-10D1A)



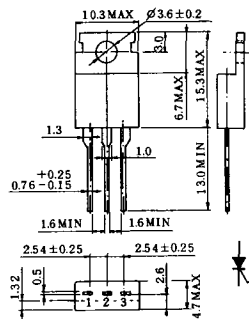
- 1 カソード
2 アノード
3 ゲート

T-52 (13-10D2A)



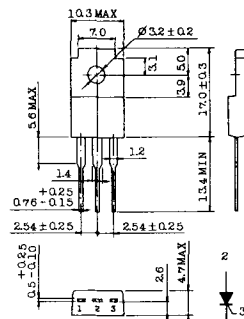
- 1 カソード
2 アノード
3 ゲート

T-53 (13-10E1B)



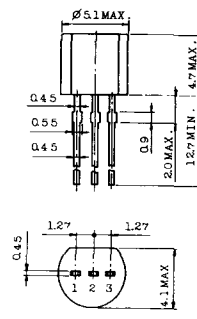
- 1 カソード
2 アノード
3 ゲート

T-54 (13-10F1B)



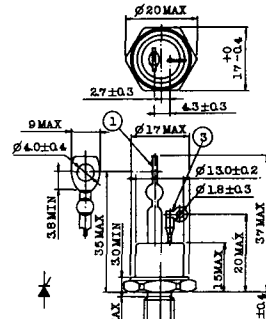
- 1 カソード
2 アノード
3 ゲート

T-55 (13-5A1D)



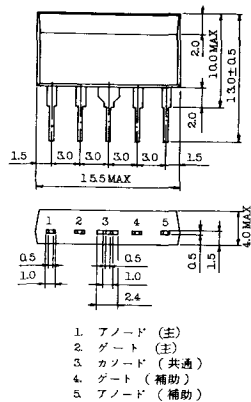
- 1 カソード
2 ゲート
3 アノード

T-56 (13-13C1A)

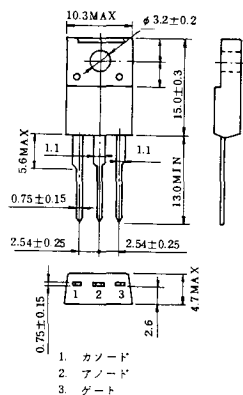


- 1 カソード
2 アノード
3 ゲート

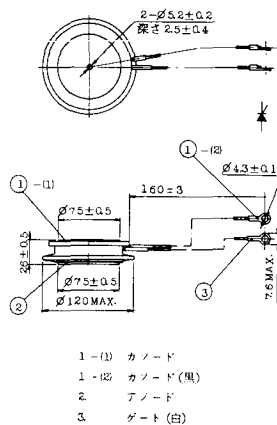
T-57 (12-16C1A)



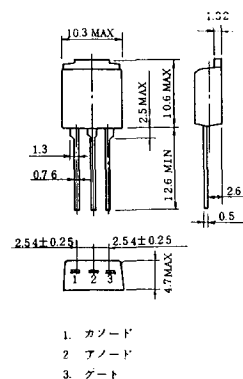
T-58 (13-10H1B)



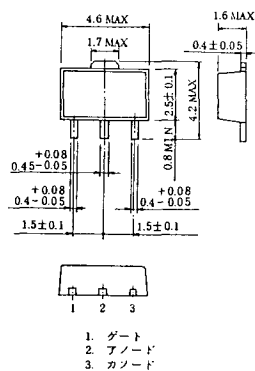
T-59 (13-120A1A)



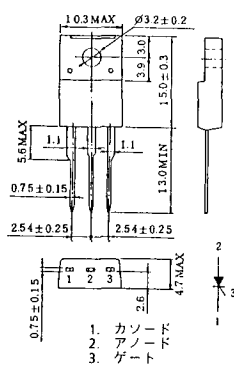
T-60



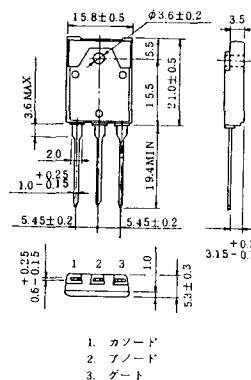
T-61 (13-5B1A)



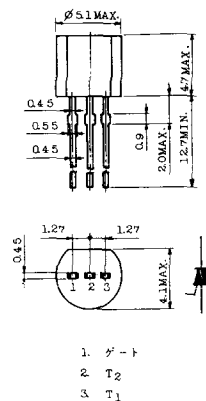
T-62 (13-10H1A)



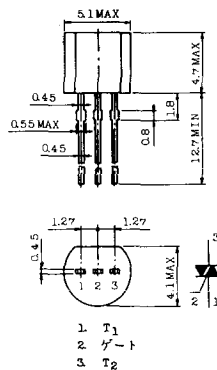
T-63 (13-16A1B)



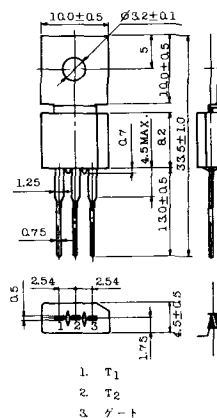
TT-1



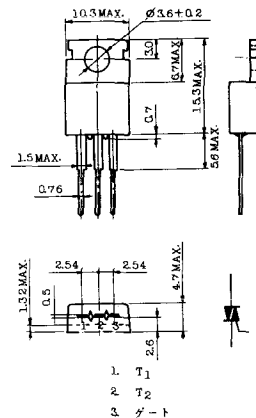
TT-2



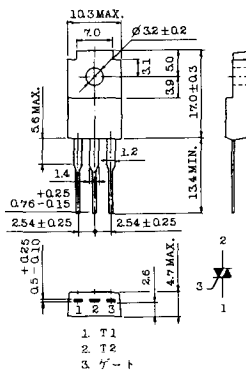
TT-3



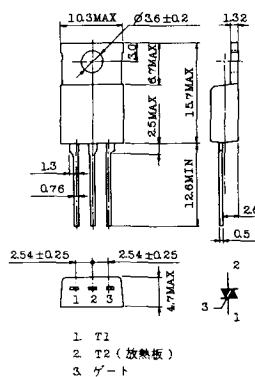
TT-4



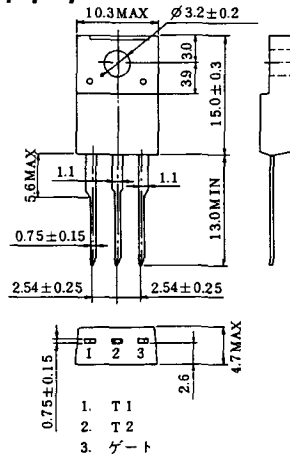
TT-5



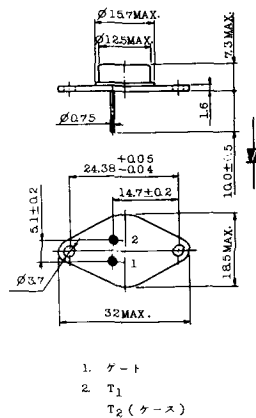
TT-6



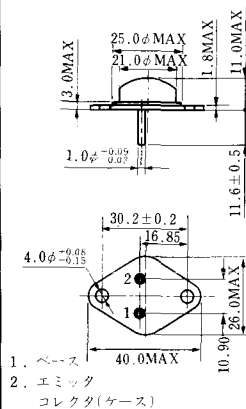
TT-7



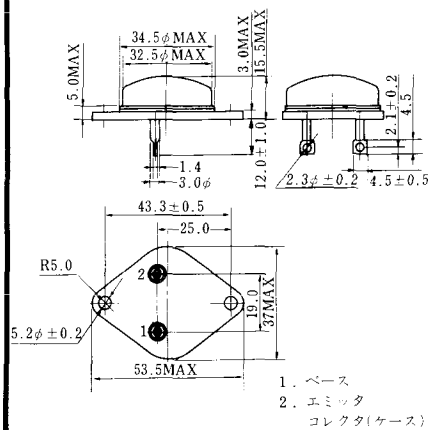
TT-8



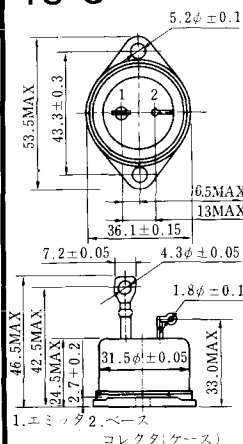
TS-1



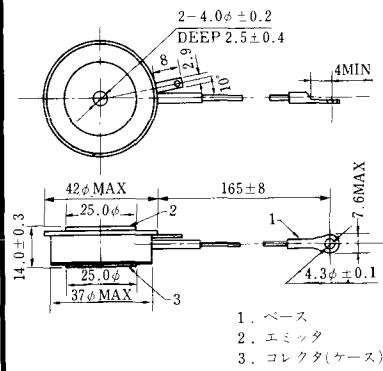
TS-2



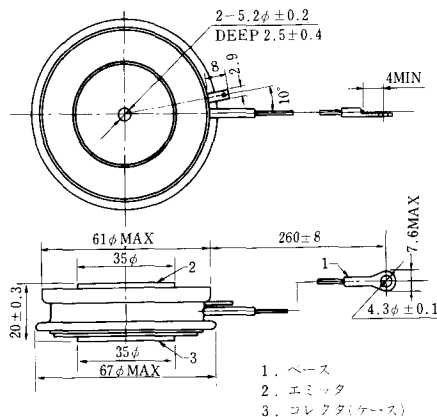
TS-3



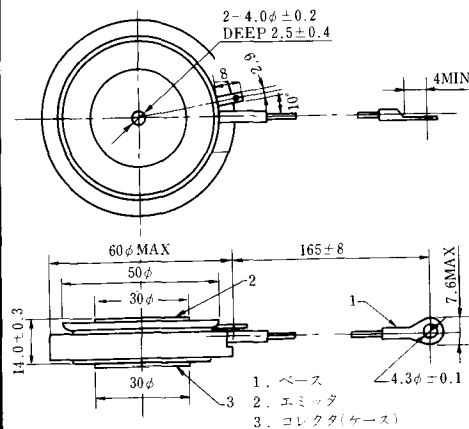
TS-4



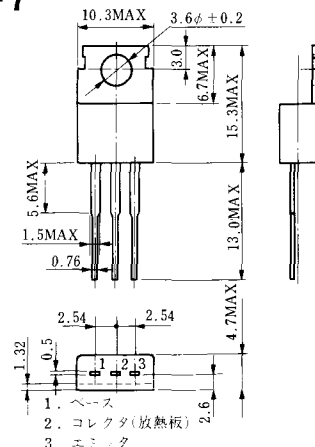
TS-5



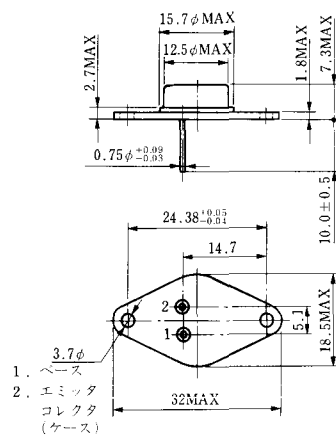
TS-6

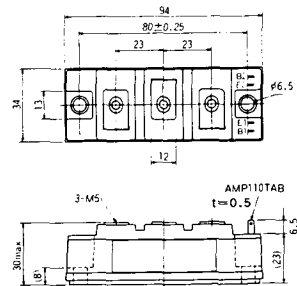
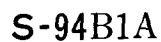
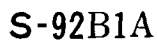
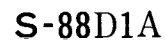
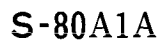


TS-7

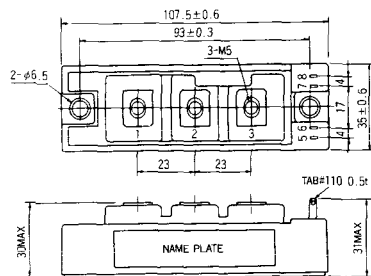


TS-8

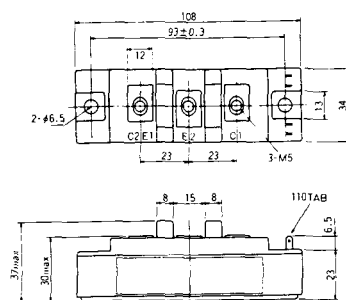




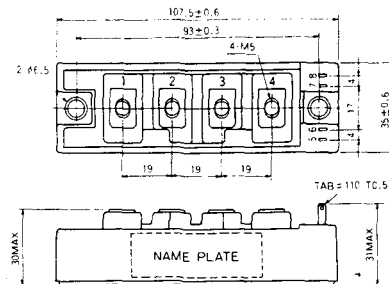
S-108B1A



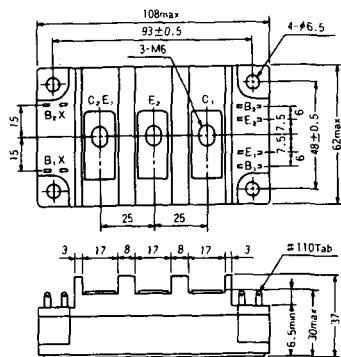
S-108B1B



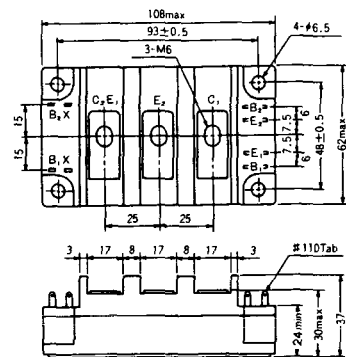
S-108B1C



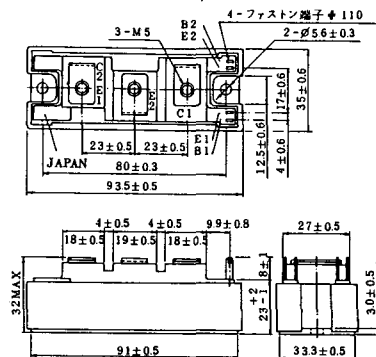
S-108B2A



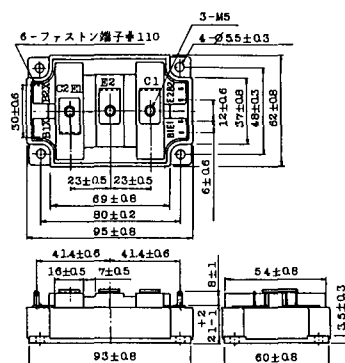
S-108B2B



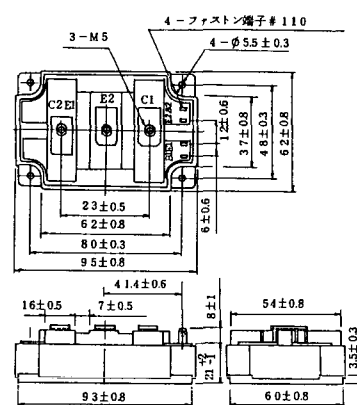
2-94D1A



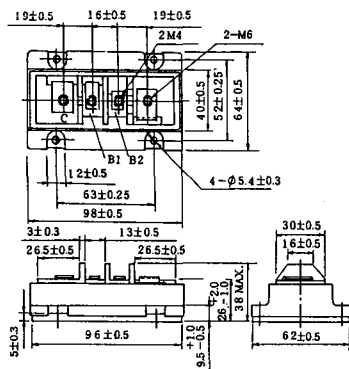
2-96A3A



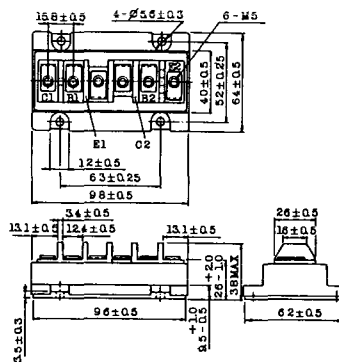
2-96A4A



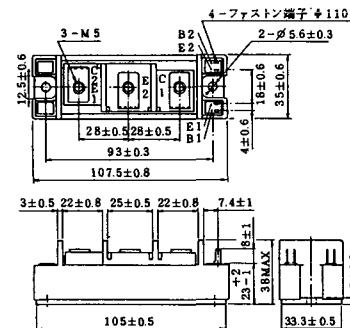
2-98B1A



2-98C2A

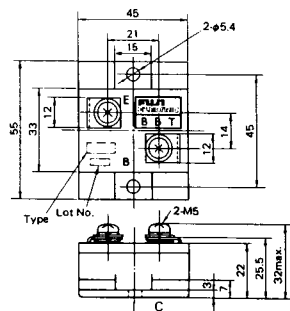


2-108A2A



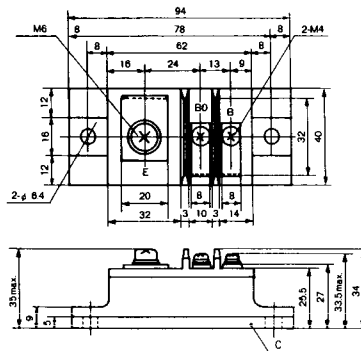
BBT-II

BBTII
1D200A-020



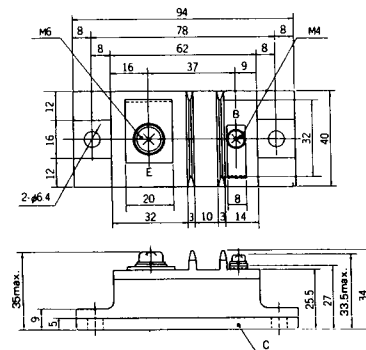
BBT-III

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



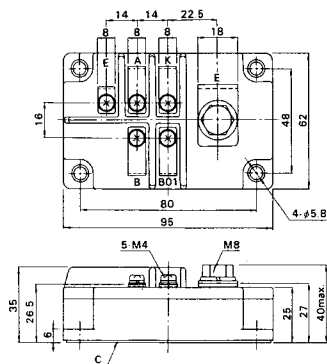
BBT-III

BBTIII
ETN01-055
ET1257

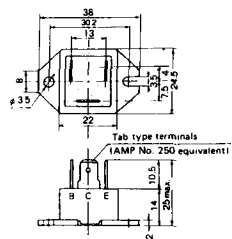


BBT-IV

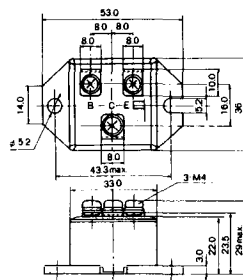
BBTIV
1D500A-030



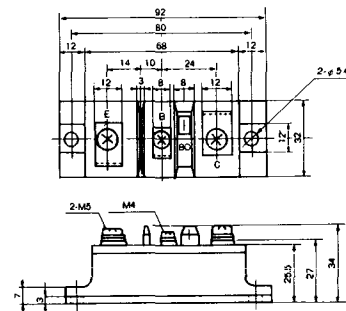
M-101



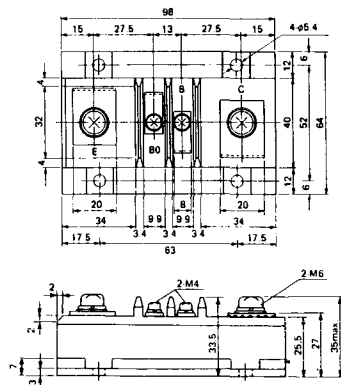
M-102



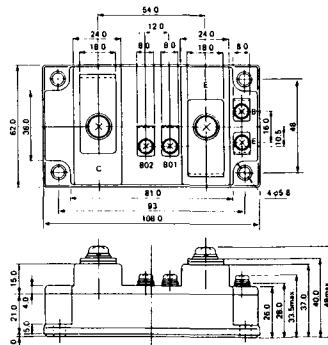
M-103



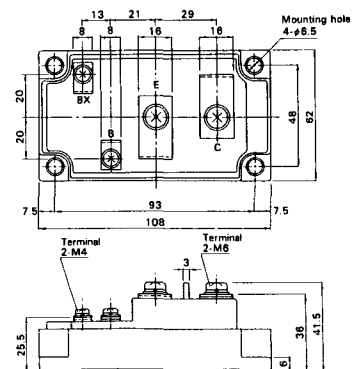
M-104



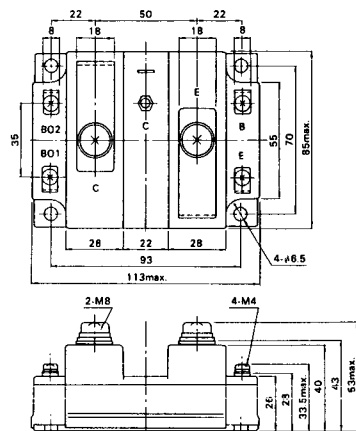
M-105



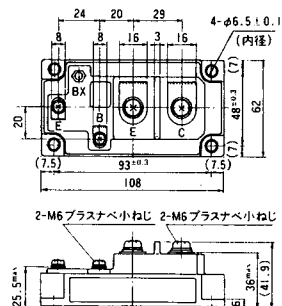
M-106



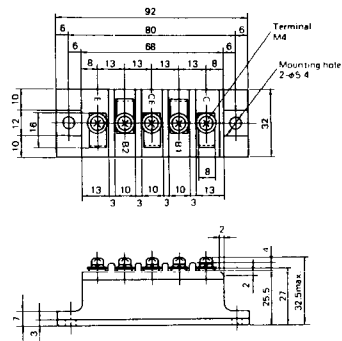
M-107



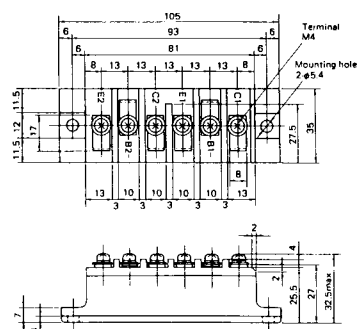
M-116



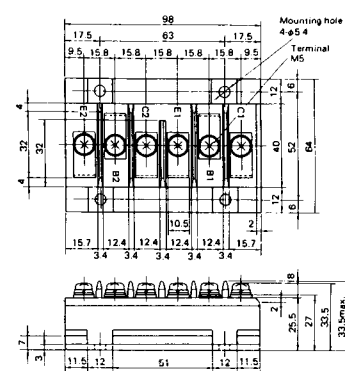
M-201



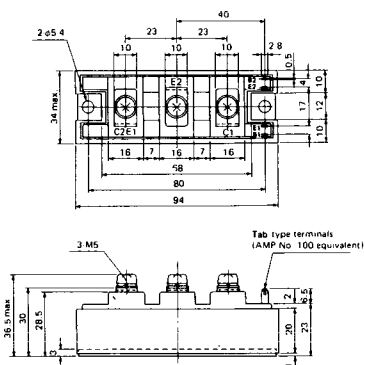
M-202



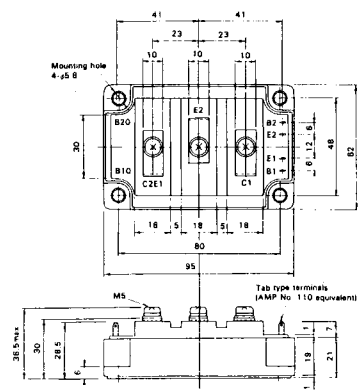
M-203



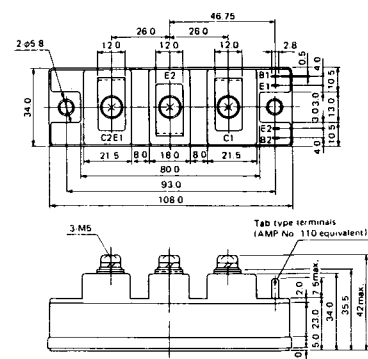
M-204



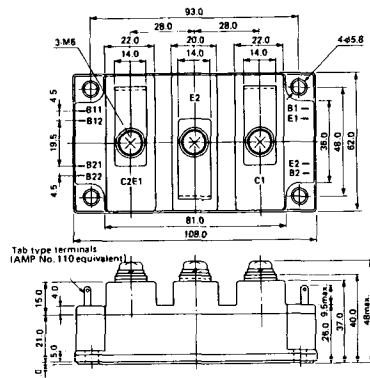
M-205



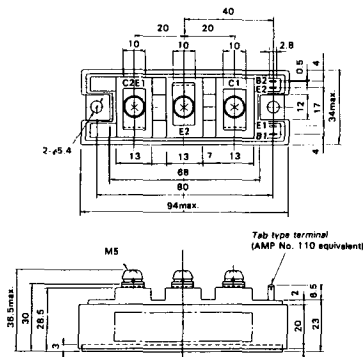
M-206



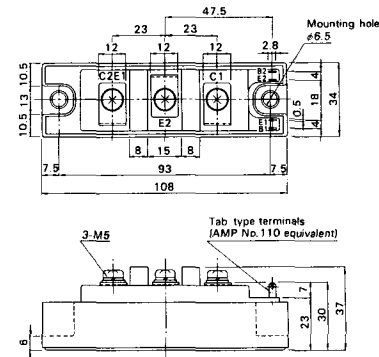
M-207



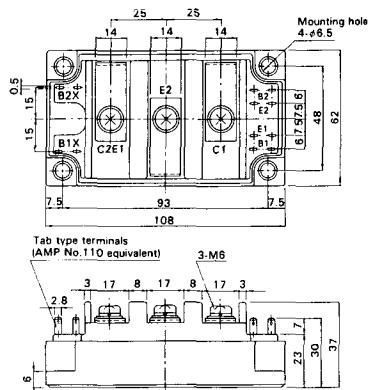
M-208



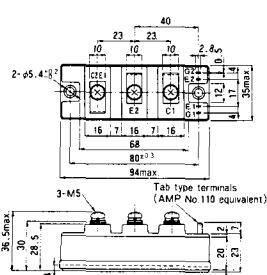
M-209



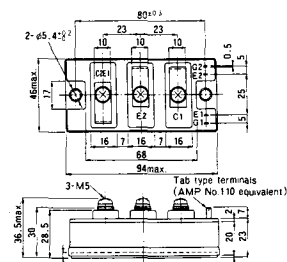
M-210

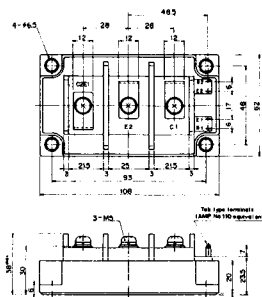
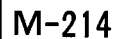


M-211



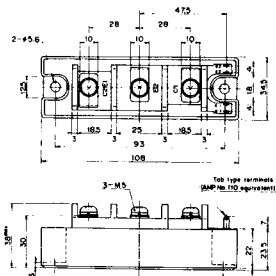
M-212



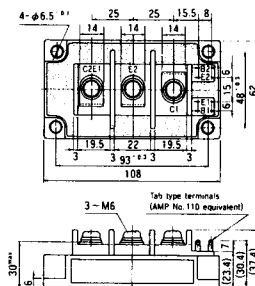


M-215

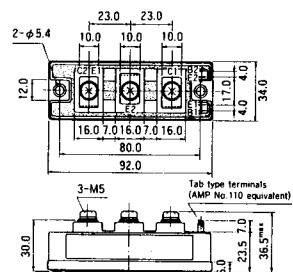
M-216

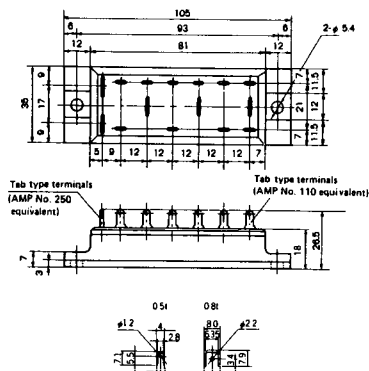
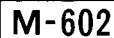


M-217

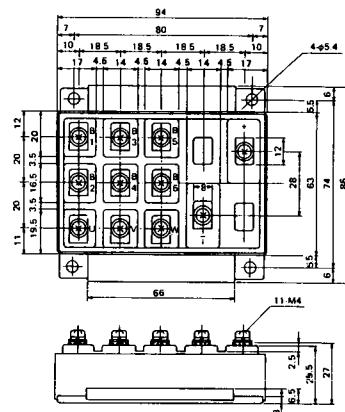


M-218

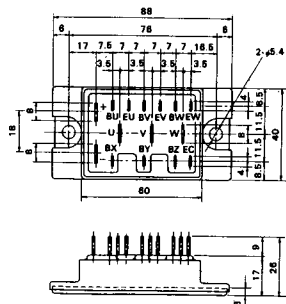




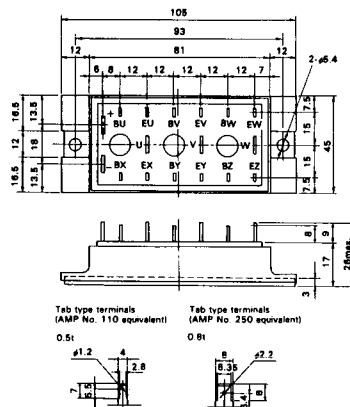
M-603



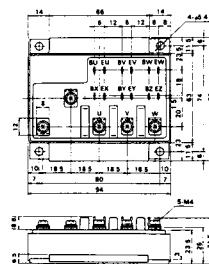
M-604



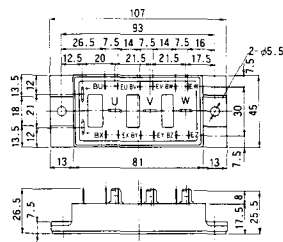
M-605



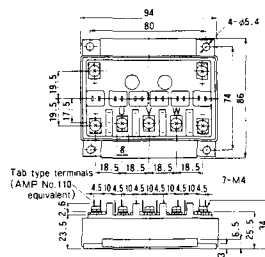
M-606



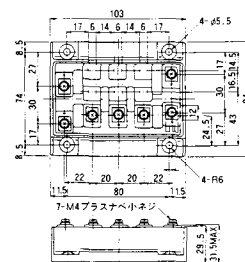
M-607



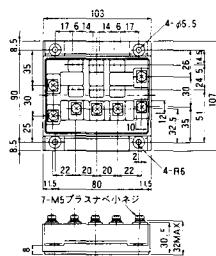
M-608



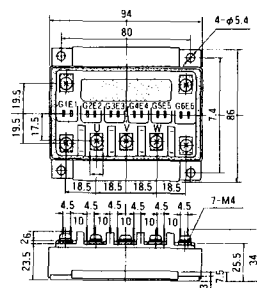
M-609



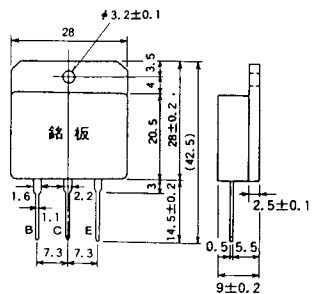
M-610



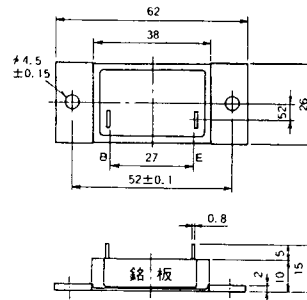
M-616



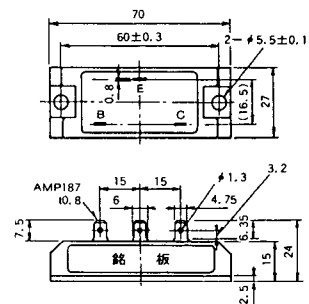
M-1A1A



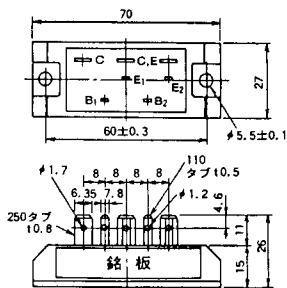
M-2A1A



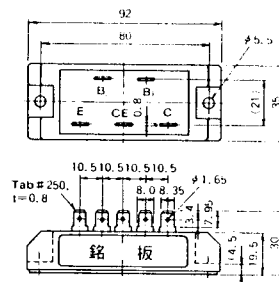
M-2B1A



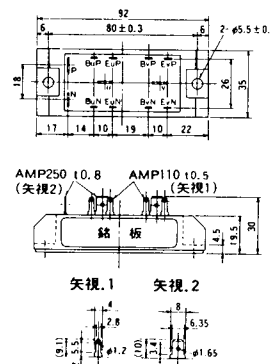
M-2B2A



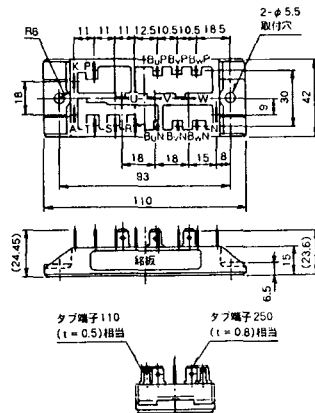
M-2C2A



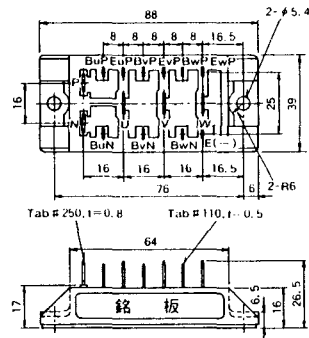
M-2D4A



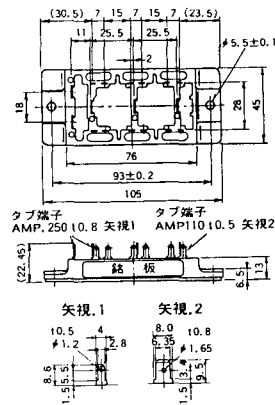
M-2E6A



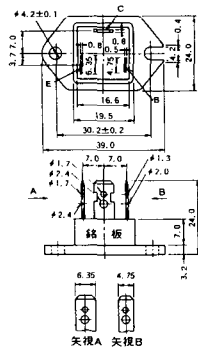
M-2F6A



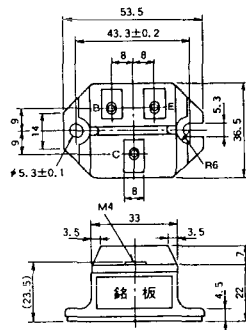
M-2G6A



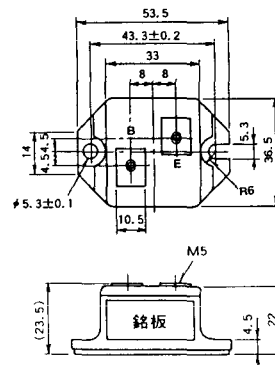
M-3A1A



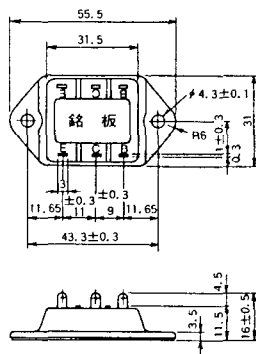
M-3B1A



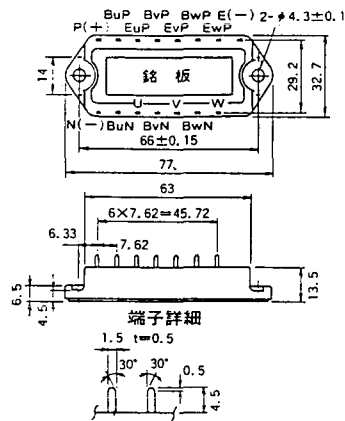
M-3B1B



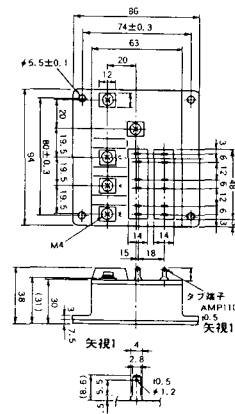
M-3C1A



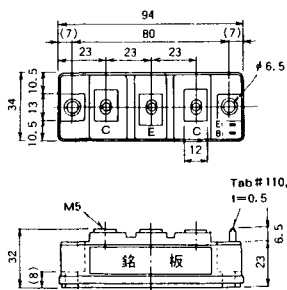
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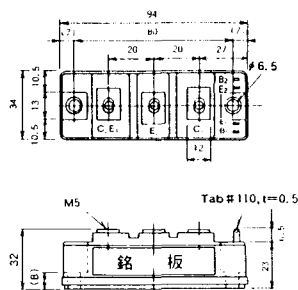
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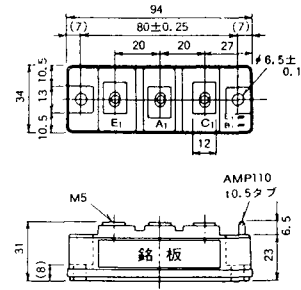
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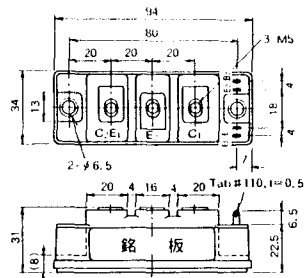
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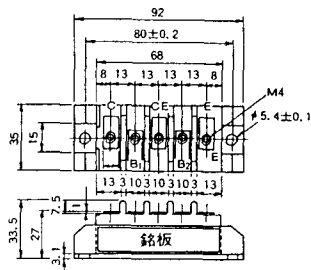
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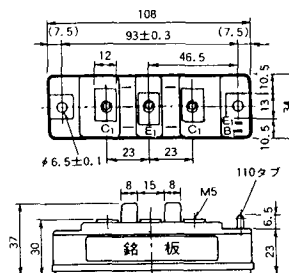
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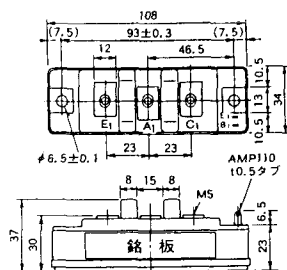
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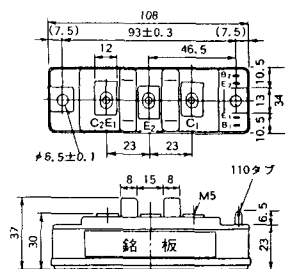
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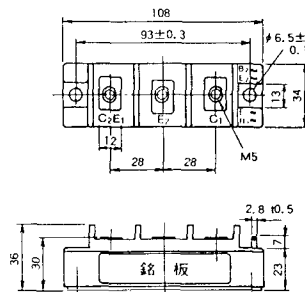
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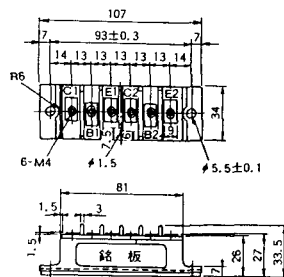
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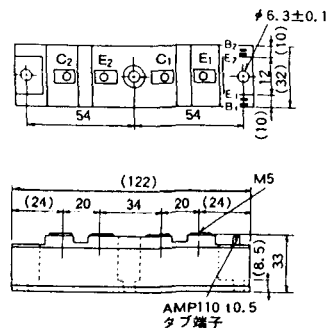
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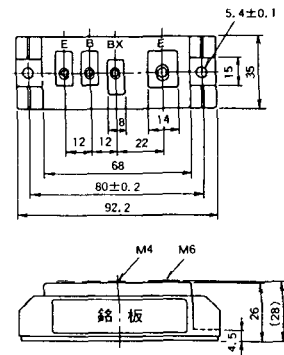
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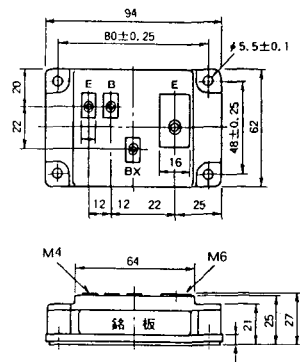
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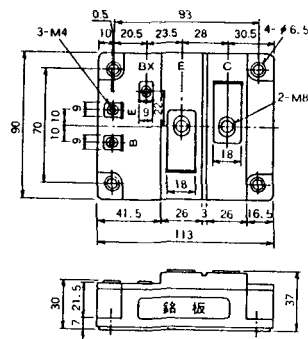
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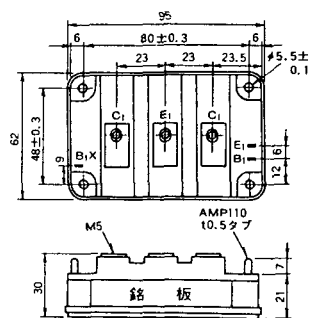
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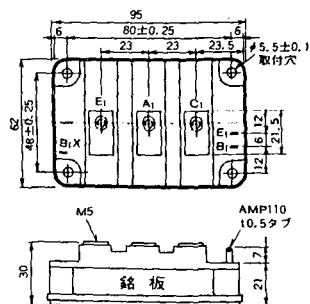
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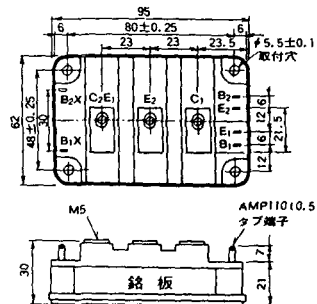
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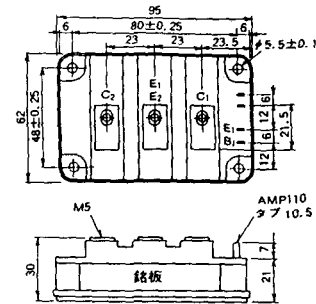
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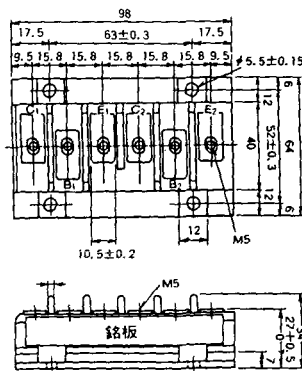
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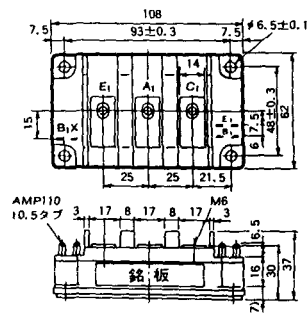
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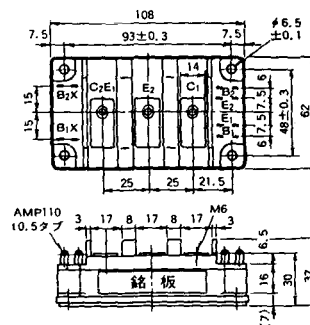
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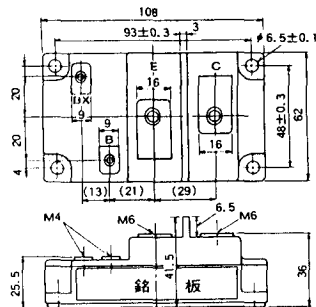
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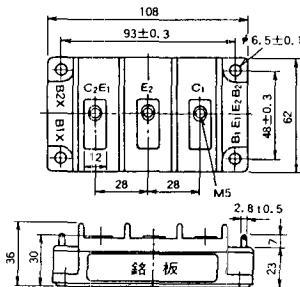
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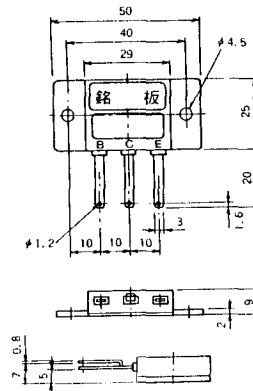
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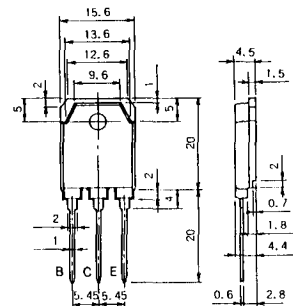
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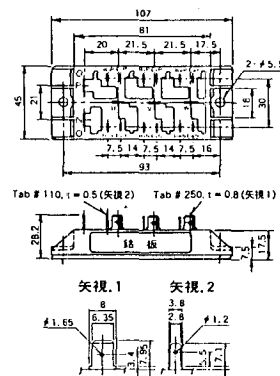
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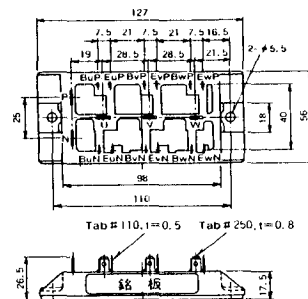
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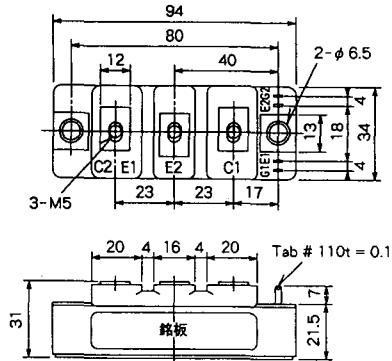
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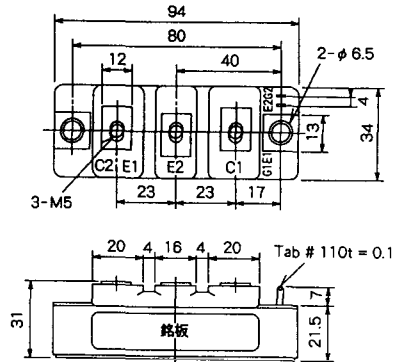
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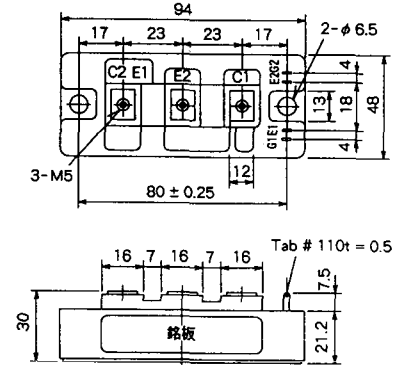
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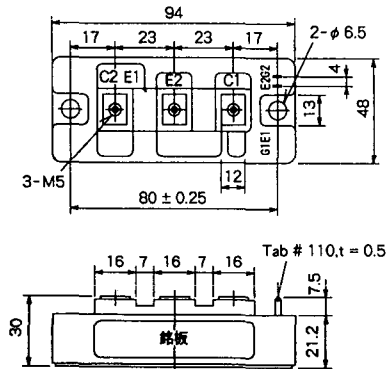
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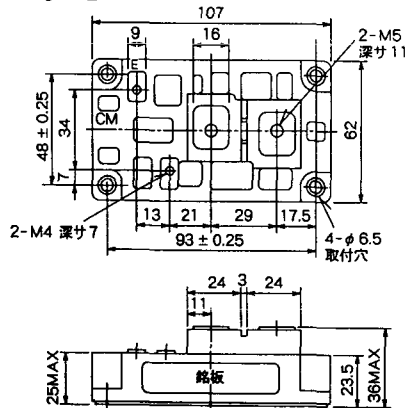
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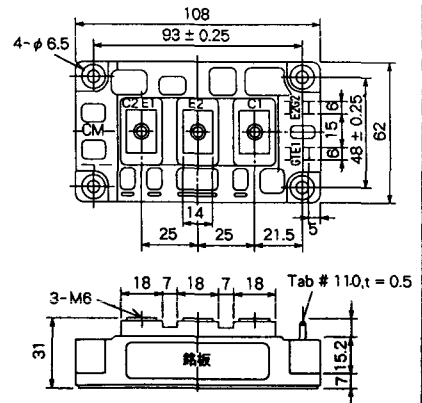
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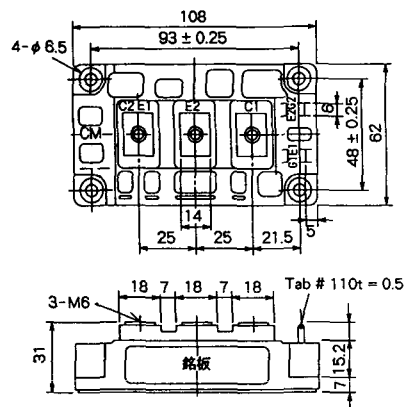
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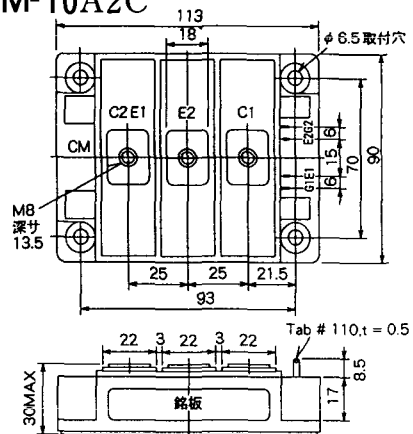
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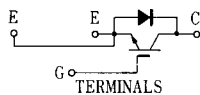
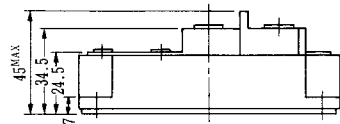
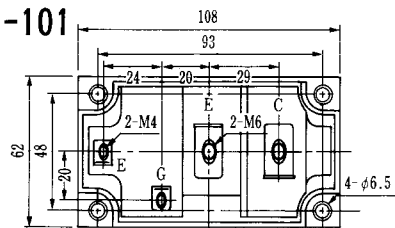
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M-10A2C



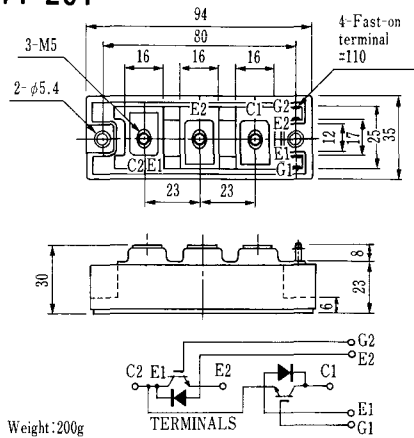
H-101



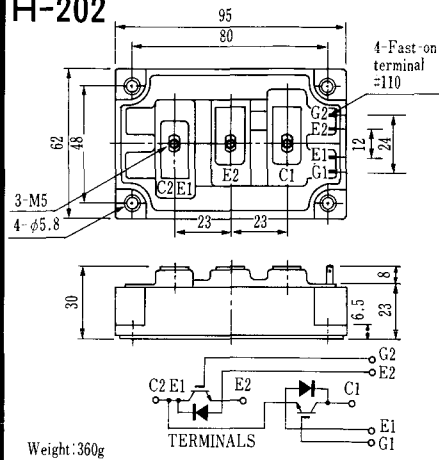
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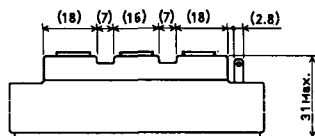
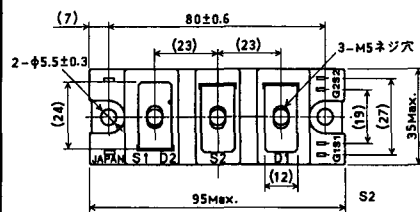
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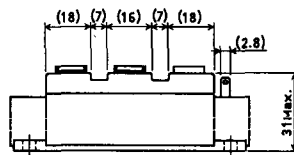
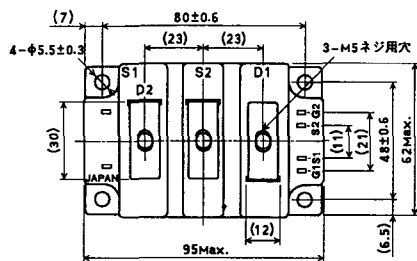
H-202



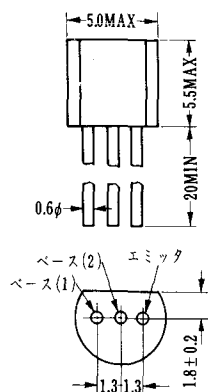
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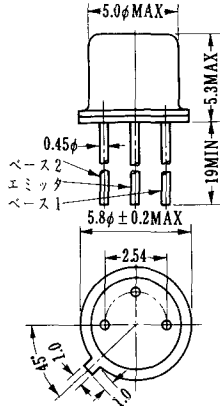
LF-K



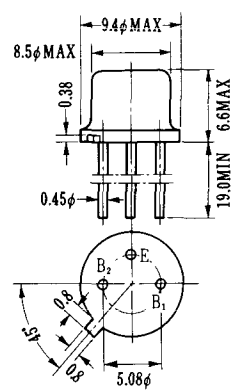
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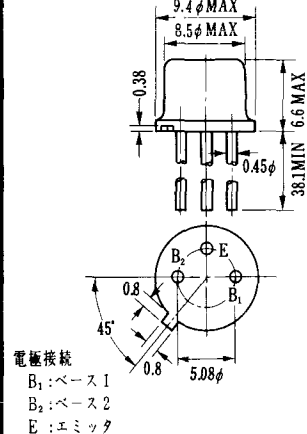
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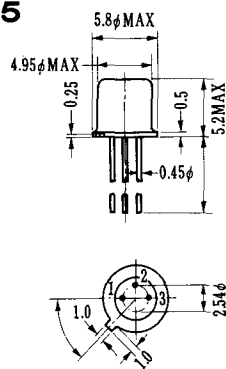
U-3



U-4

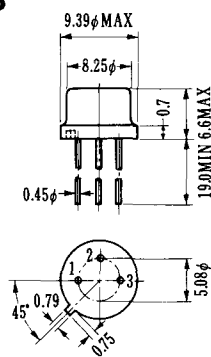


U-5



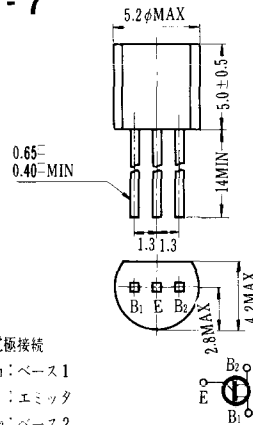
1. BASE1
2. EMITTER
3. BASE2 (CASE)

U-6



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

U-7



U-8

