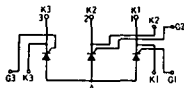


サイリスタ・モジュール

PWB60A

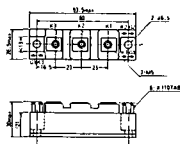
- 三相半波結線
- 非絶縁形 (取付ベース部が共通アノード端子)

■接続図



三社電機

■外形図



■最大定格

記号	PWB60A30	PWB60A40	単位
V_{RSM}	360	480	V
V_{RRM}	300	400	V
V_{DRM}	300	400	V
$I_{T(AV)}$	60 ($T_c = 123^\circ\text{C}$)		A
$I_{T(RMS)}$	94		A
I_{TSM}	1640/1800 (50Hz/60Hz, 正弦半波, 1 サイクル波高値)		A
$I^2 \cdot t$	13500 (2 ~ 10ms)		A ² S
di/dt	50 ($T_j = 25^\circ\text{C}$, $V_D = \frac{1}{2} V_{DRM}$, $I_G = 150\text{mA}$, $di/dt = 1 \text{ A}/\mu\text{s}$)		A/ μs
P_{GM}	10		W
$P_{G(AV)}$	1		W
V_{GRM}	5		V
I_{GFM}	3		A
T_j	150		$^\circ\text{C}$
T_{stg}	-30 ~ 125		$^\circ\text{C}$

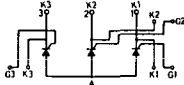
■電気的特性 ($T_j = 25^\circ\text{C}$)

記号	測定条件	最小	標準	最大	単位
I_{RRM}	$T_j = 150^\circ\text{C}$, $V_D = V_{RRM}$			10	mA
I_{DRM}	$T_j = 150^\circ\text{C}$, $V_D = V_{DRM}$			10	mA
V_{TM}	$I_{TM} = 180\text{A}$			1.25	V
V_{GT}	$V_D = 6 \text{ V}$, $I_T = 1 \text{ A}$			2	V
I_{GT}				150	mA
V_{GD}	$T_j = 150^\circ\text{C}$, $V_D = \frac{1}{2} V_{DRM}$	0.25			V
I_{GD}					mA
dv/dt	$T_j = 150^\circ\text{C}$, $V_D = \frac{2}{5} V_{DRM}$	50			V/ μs
I_H				100	mA
R_{th}	換合ケース間			0.35	$^\circ\text{C}/\text{W}$

PWB80A

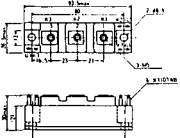
- 三相半波結線
- 非絶縁形 (取付ベース部が共通アノード端子)

■接続図



三社電機

■外形図



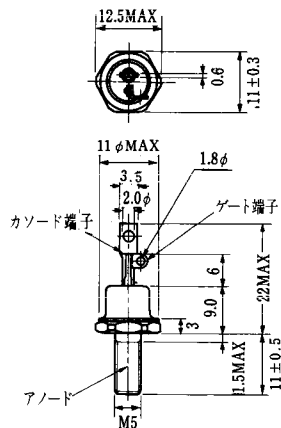
■最大定格

記号	PWB80A30	PWB80A40	単位
V_{RSM}	360	480	V
V_{RRM}	300	400	V
V_{DRM}	300	400	V
$I_{T(AV)}$	80 ($T_c = 116^\circ\text{C}$)		A
$I_{T(RMS)}$	125		A
I_{TSM}	2280/2500 (50Hz/60Hz, 正弦半波, 1 サイクル波高値)		A
$I^2 \cdot t$	26000 (2 ~ 10ms)		A ² S
di/dt	50 ($T_j = 25^\circ\text{C}$, $V_D = \frac{1}{2} V_{DRM}$, $I_G = 200\text{mA}$, $di/dt = 1 \text{ A}/\mu\text{s}$)		A/ μs
P_{GM}	10		W
$P_{G(AV)}$	1		W
V_{GRM}	5		V
I_{GFM}	3		A
T_j	150		$^\circ\text{C}$
T_{stg}	-30 ~ 125		$^\circ\text{C}$

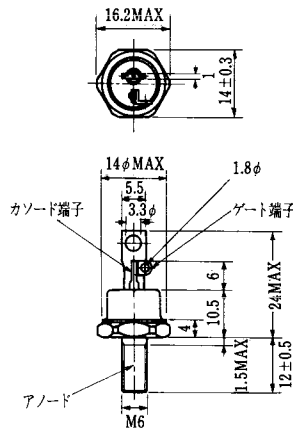
■電気的特性 ($T_j = 25^\circ\text{C}$)

記号	測定条件	最小	標準	最大	単位
I_{RRM}	$T_j = 150^\circ\text{C}$, $V_D = V_{RRM}$			12	mA
I_{DRM}	$T_j = 150^\circ\text{C}$, $V_D = V_{DRM}$			12	mA
V_{TM}	$I_{TM} = 240\text{A}$			1.20	V
V_{GT}	$V_D = 6 \text{ V}$, $I_T = 1 \text{ A}$			2	V
I_{GT}				150	mA
V_{GD}	$T_j = 150^\circ\text{C}$, $V_D = \frac{1}{2} V_{DRM}$	0.25			V
I_{GD}					mA
dv/dt	$T_j = 150^\circ\text{C}$, $V_D = \frac{2}{5} V_{DRM}$	50			V/ μs
I_H				100	mA
R_{th}	換合ケース間			0.35	$^\circ\text{C}/\text{W}$

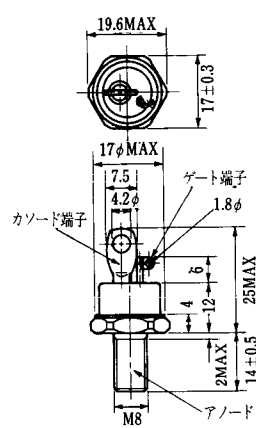
FD-1



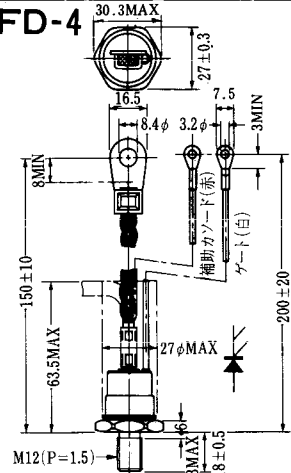
FD-2



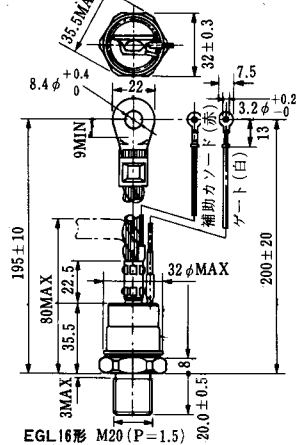
FD-3



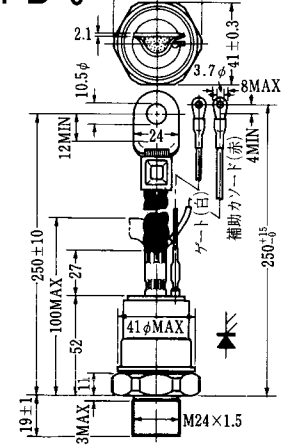
FD-4



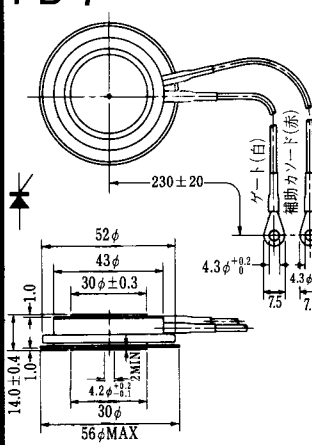
FD-5



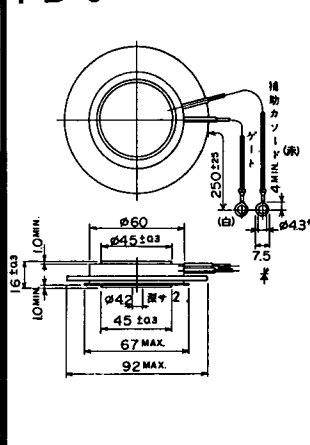
FD-6



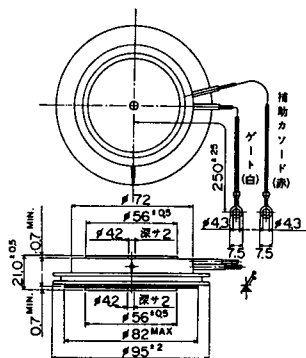
FD-7



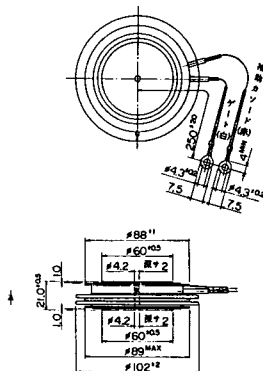
FD-8



FD-9



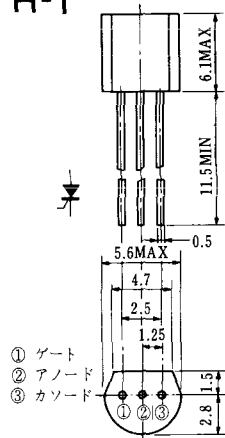
FD-10



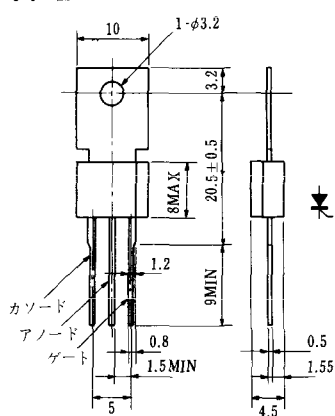
FD-11

FD-12

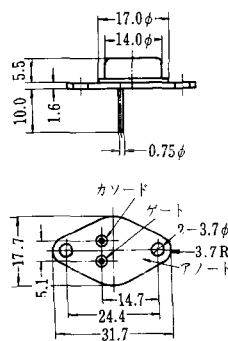
H-1



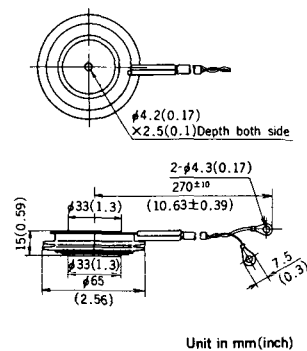
H-2



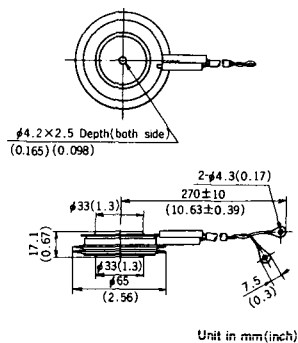
H-3



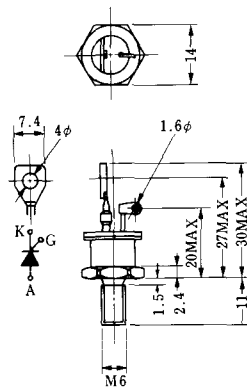
H-4



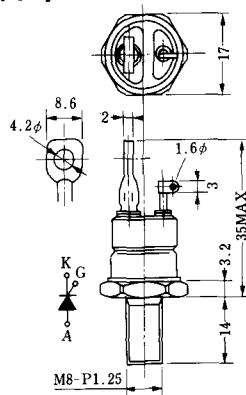
H-5



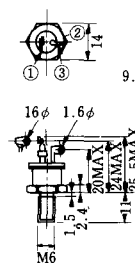
H-6



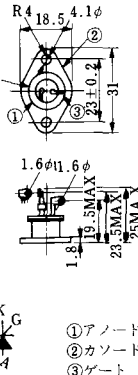
H-7



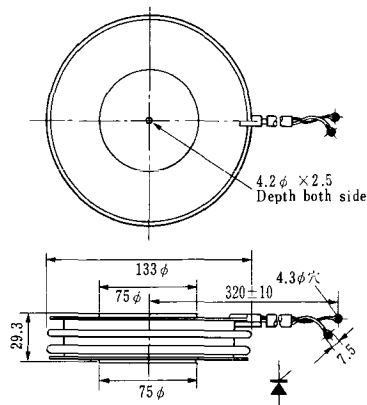
H-8A



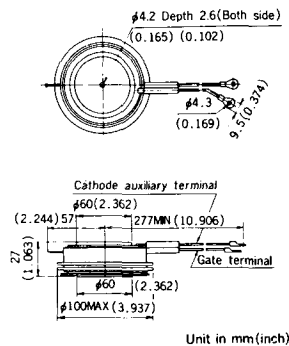
H-8B



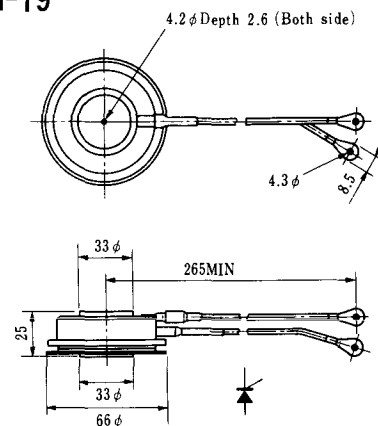
H-17



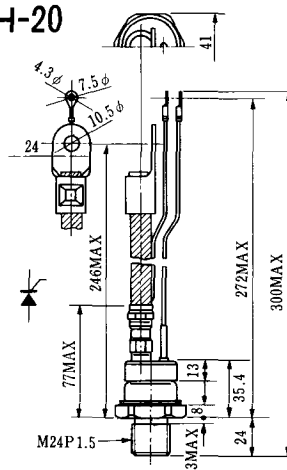
H-18



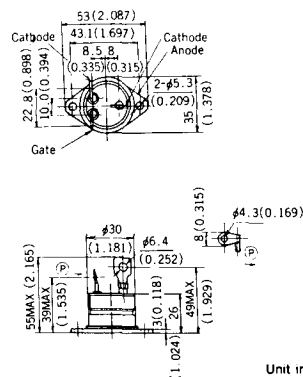
H-19



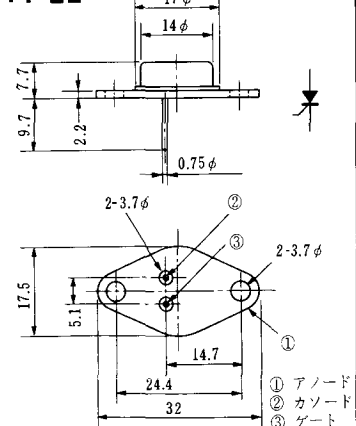
H-20



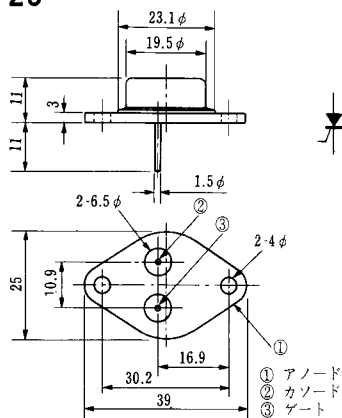
H-21



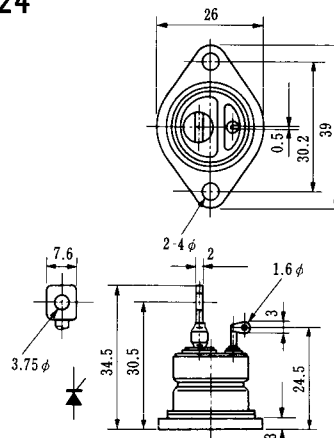
H-22



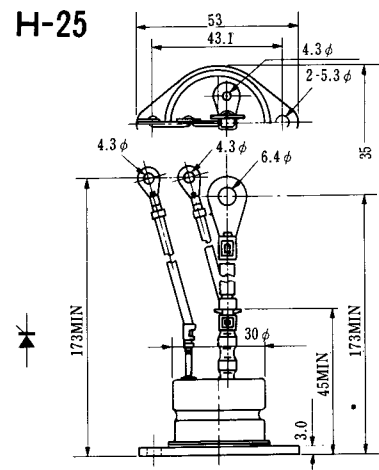
H-23



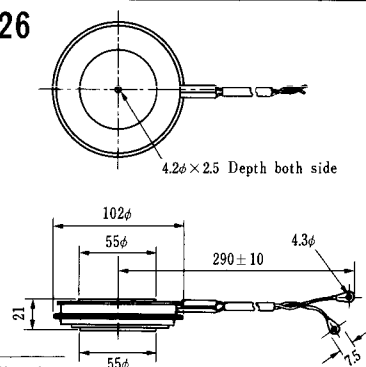
H-24



H-25

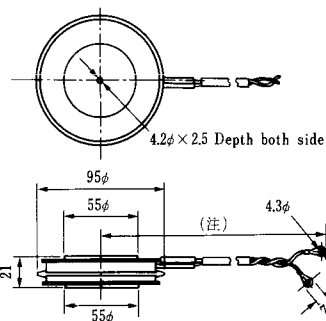


H-26



Type	Direction of polarity
CA12	

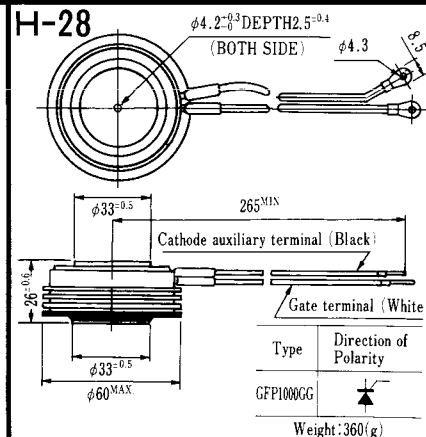
H-27



Type	Direction of polarity
CF11V	

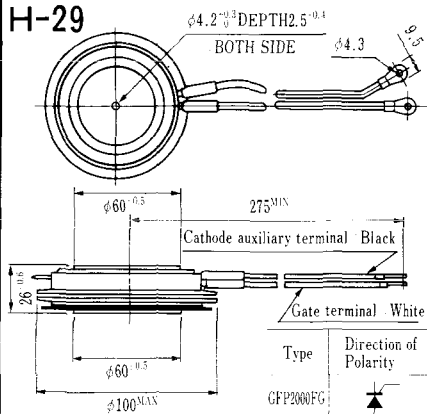
(注) CC11V: 400 ± 10
CF11V: 250 ± 10

H-28



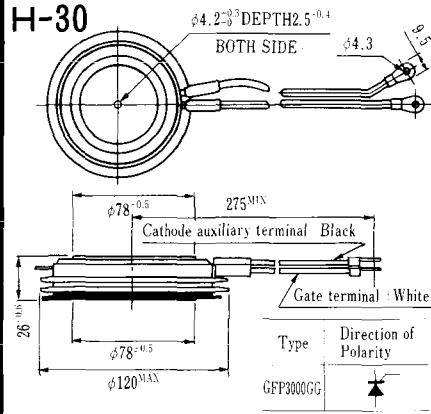
Note: The thickness is a dimension in press at the rated mounting force.

H-29



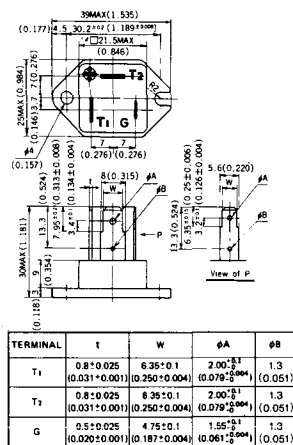
Note : The thickness is a dimension in press at the rated mounting force. Weight: 870(g)

H-30



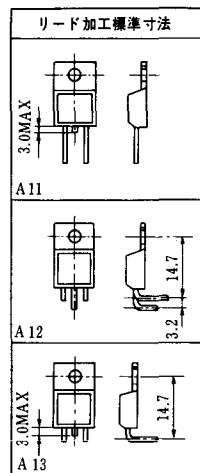
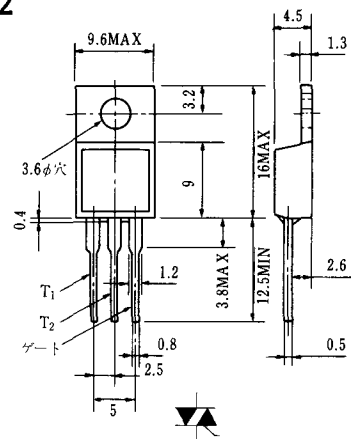
Note : The thickness is a dimension in press at the rated mounting force. Weight: 1,460(g)

HT-1

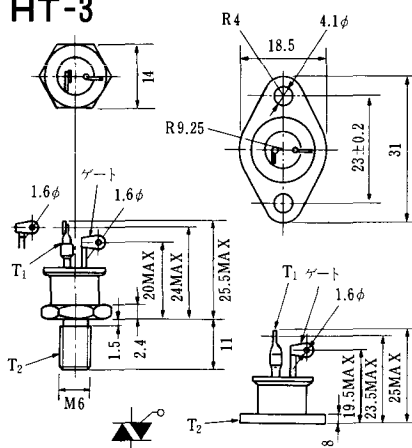


Unit in mm (inch)

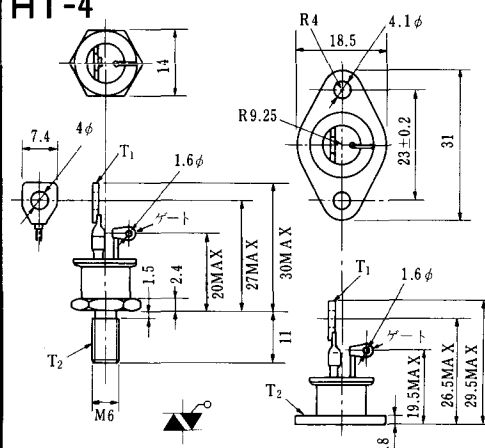
HT-2



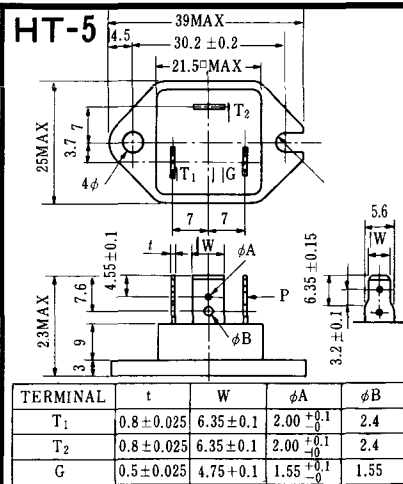
HT-3



HT-4

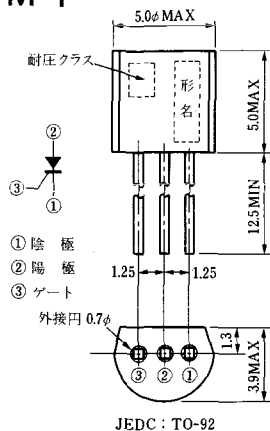


HT-5

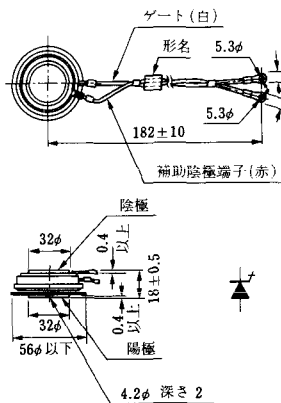


《寸法図単位：mm》

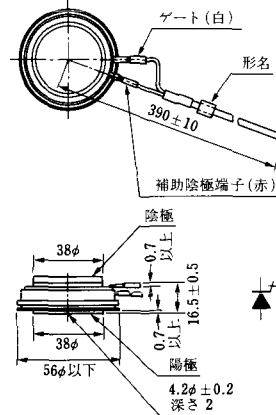
M-1



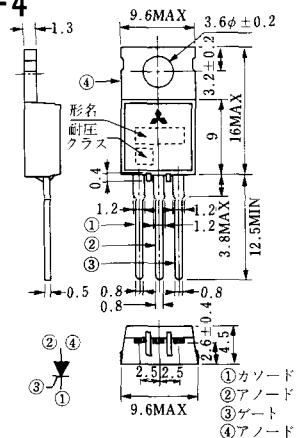
M-2



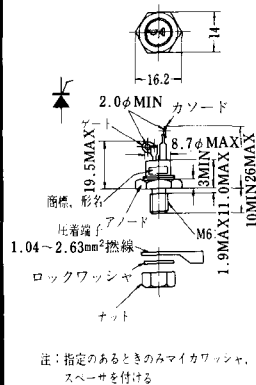
M-3



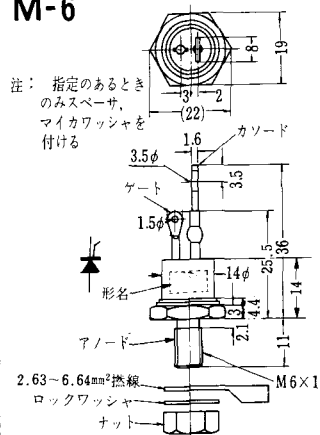
M-4



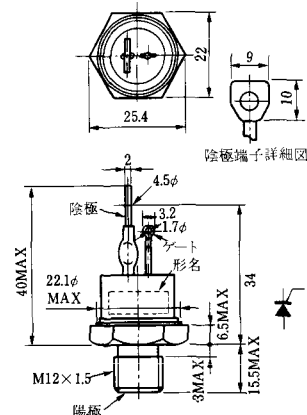
M-5



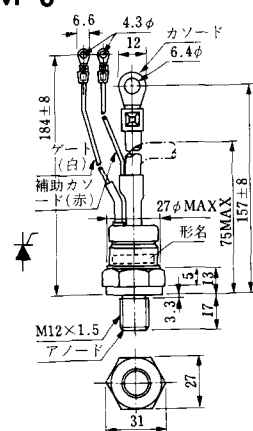
M-6



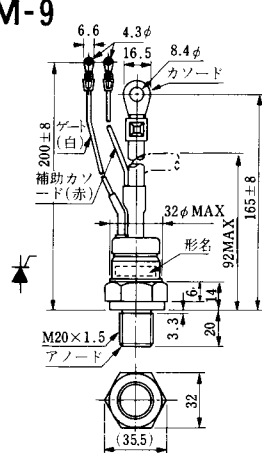
M-7



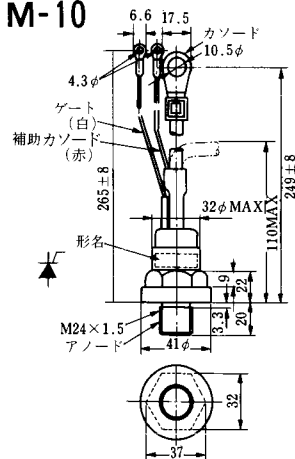
M-8



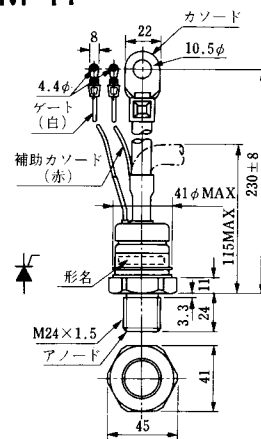
M-9



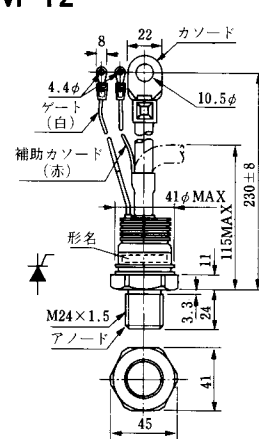
M-10



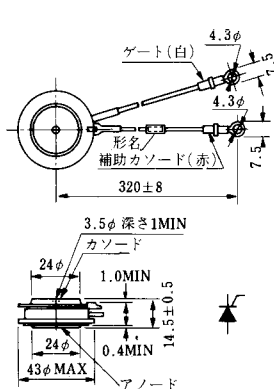
M-11



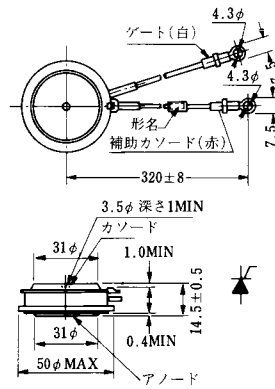
M-12



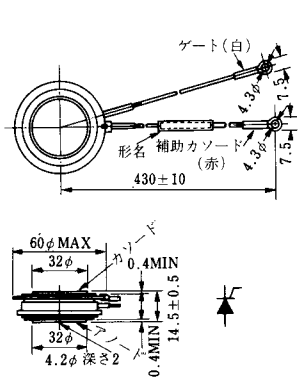
M-13



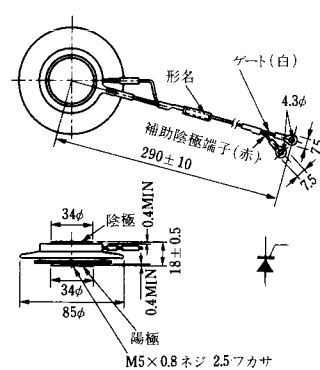
M-14



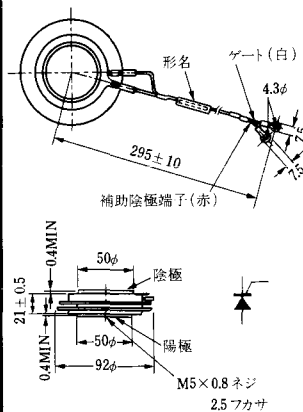
M-15



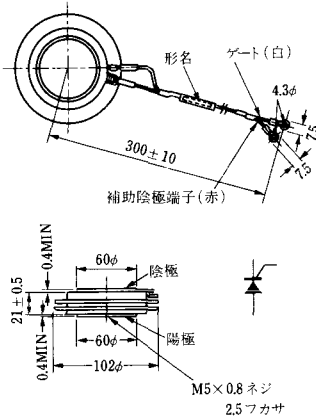
M-16



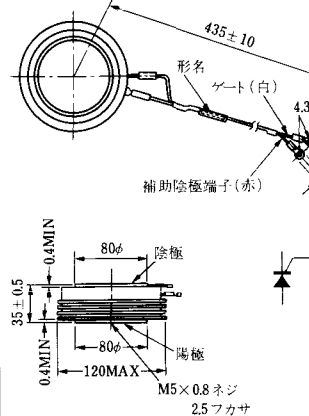
M-17



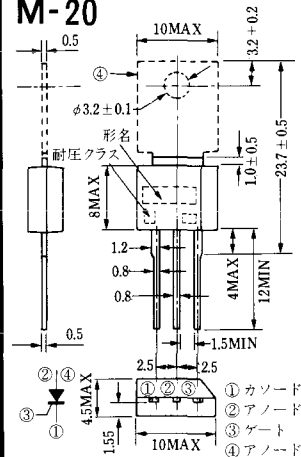
M-18



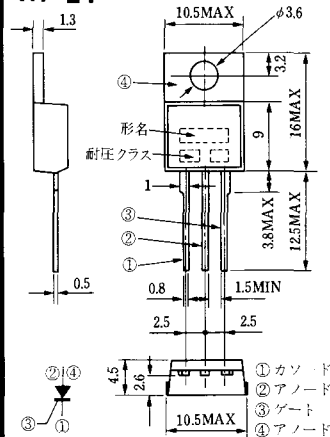
M-19



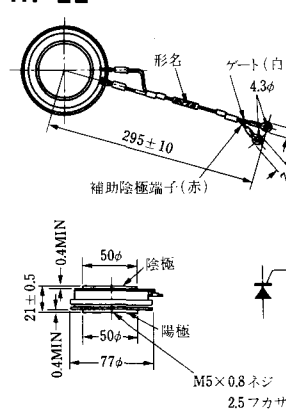
M-20



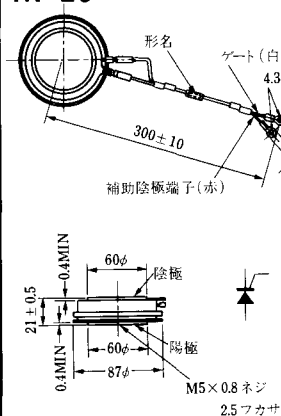
M-21



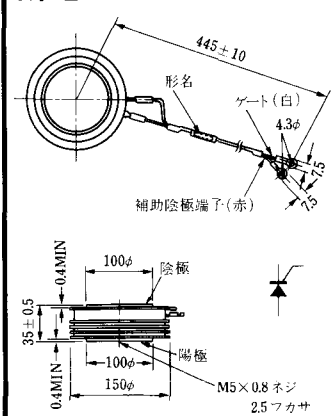
M-22



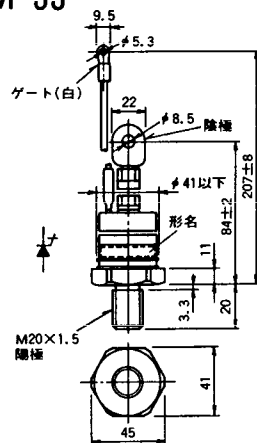
M-23



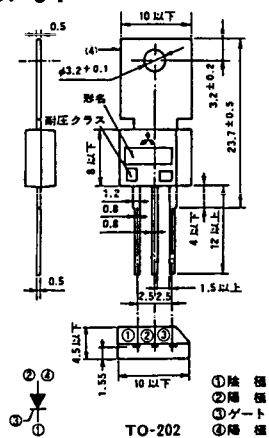
M-24



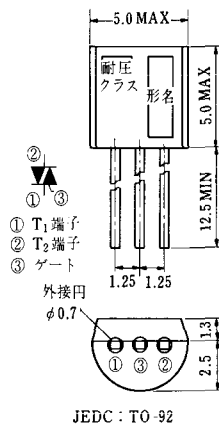
M-33



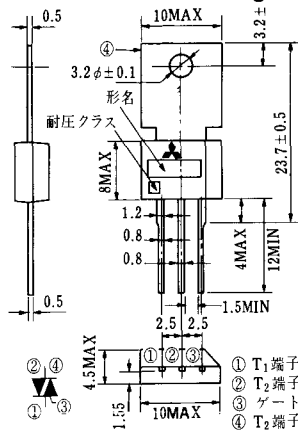
M-34



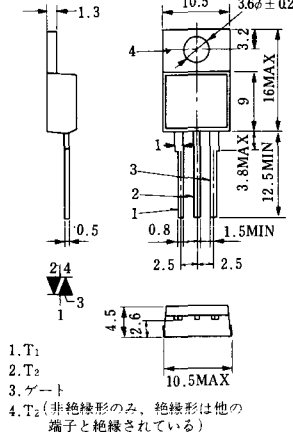
MT-1



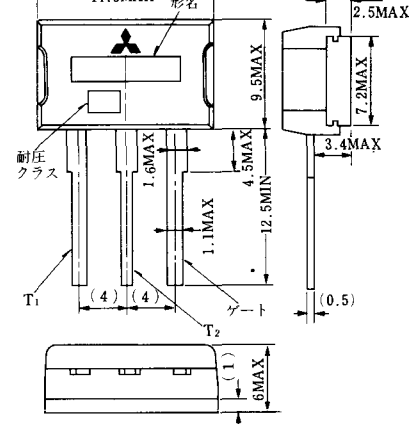
MT-2



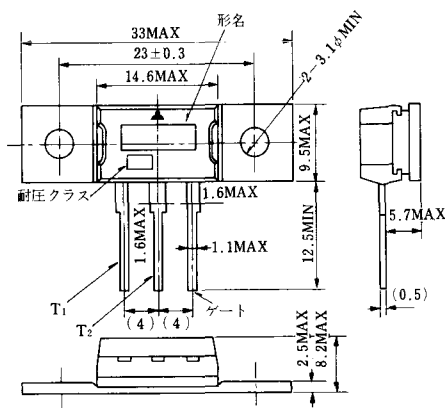
MT-3



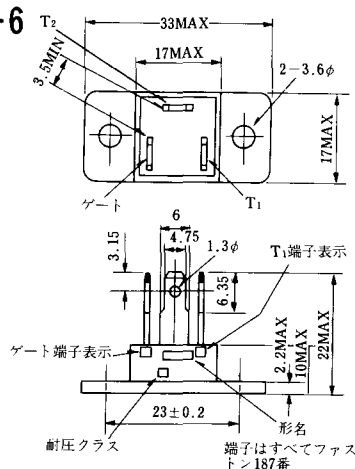
MT-4



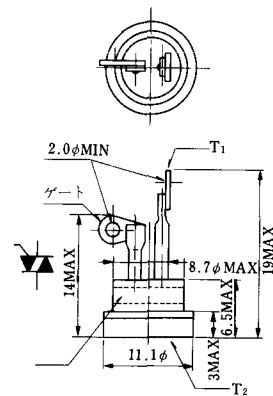
MT-5



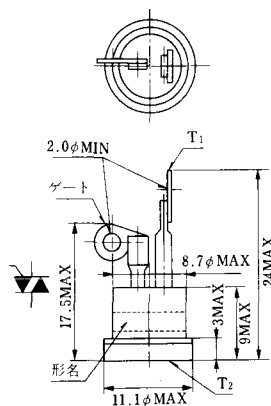
MT-6



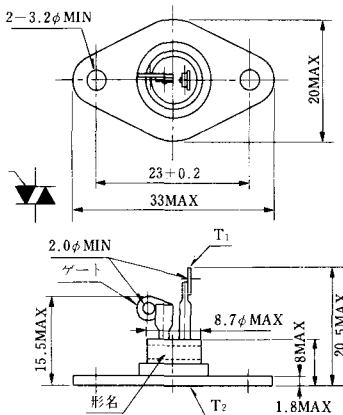
MT-7



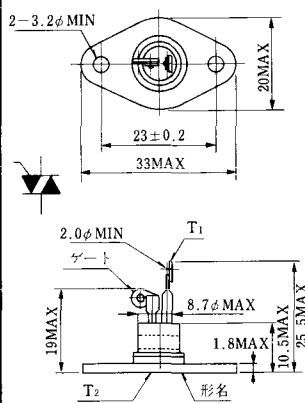
MT-8



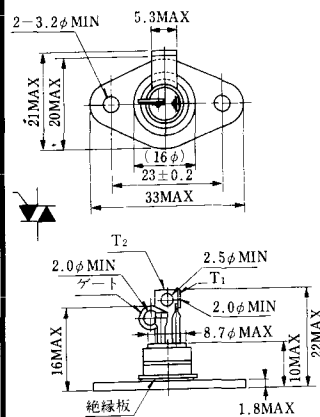
MT-9



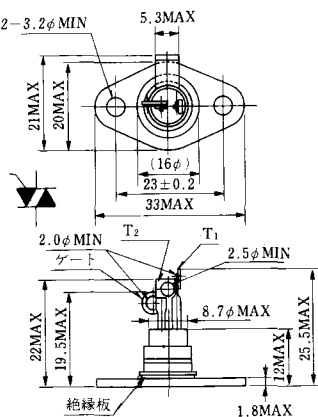
MT-10



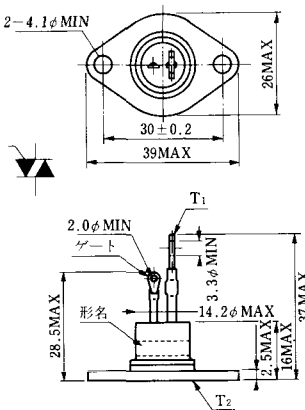
MT-11



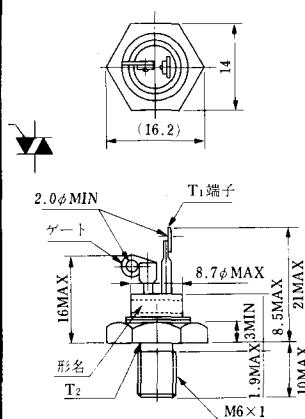
MT-12



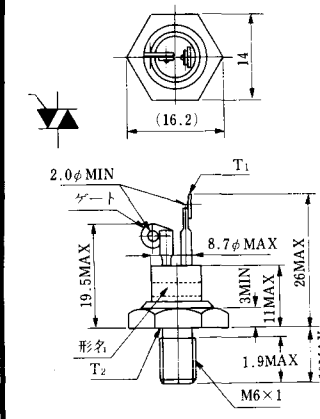
MT-13



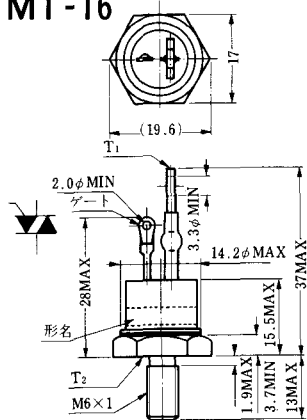
MT-14



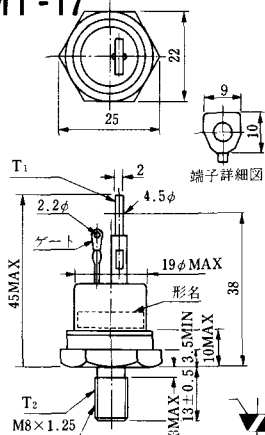
MT-15



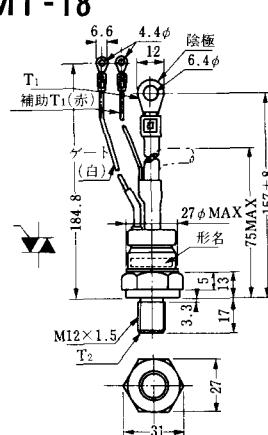
MT-16



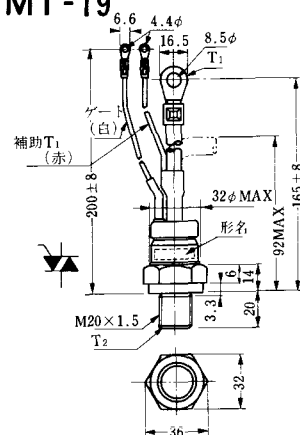
MT-17



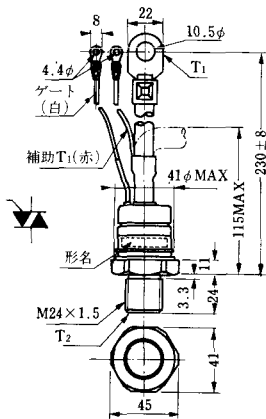
MT-18



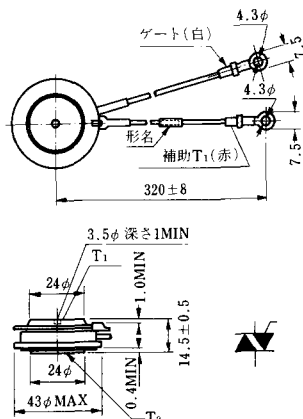
MT-19



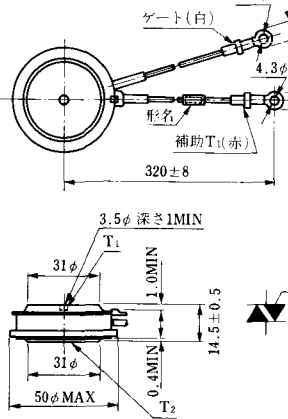
MT-20



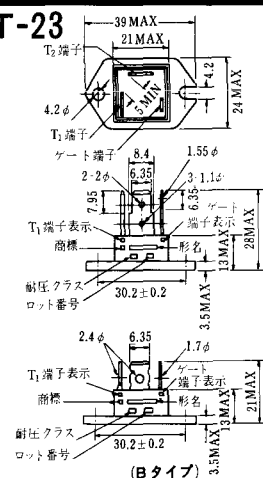
MT-21



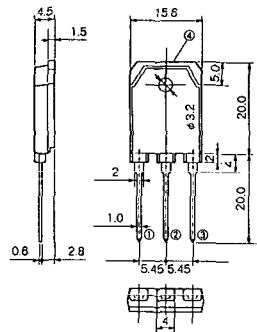
MT-22



MT-23



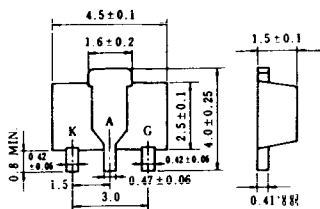
MT-24



TO - 3P

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

N-9



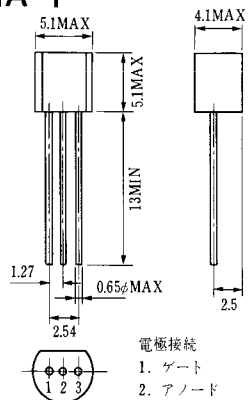
電極接続

K : カソード

A : アノード

G : ゲート

NA-1

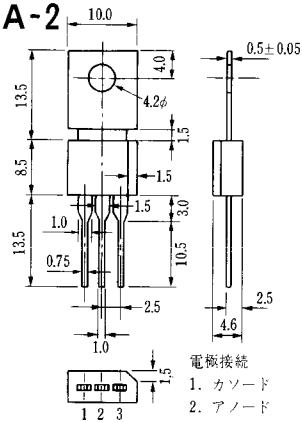


電極接続

1. ゲート
2. アノード
3. カソード

JEDEC: TO-92

NA-2



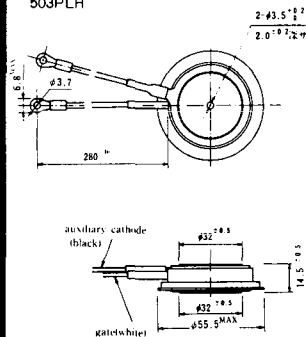
電極接続

1. カソード
2. アノード
3. ゲート

JEDEC: TO-202AA

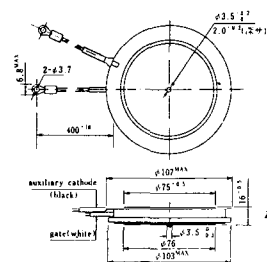
NI-16

503PLF
503PLH



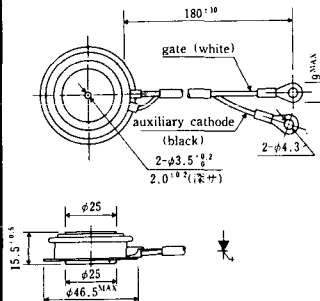
NI-17

3003PA



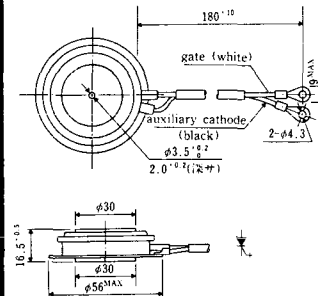
NI-18

353PGA「E



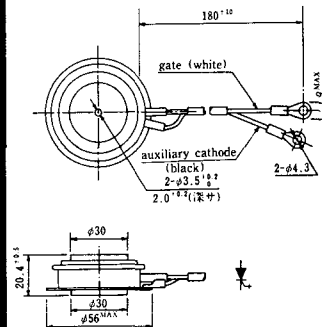
NI-19

603PGA, 603PGA「A, 803PGA



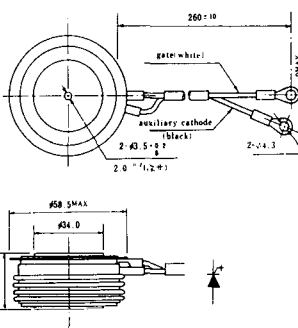
NI-20

603PGA「E



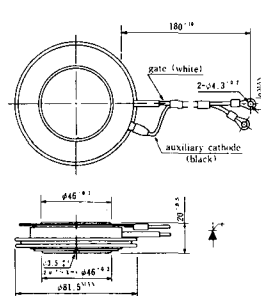
NI-21

1001PGB「E



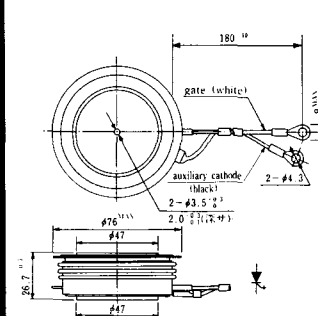
NI-22

1201PGA, 1201PGA「A, 1401PGA



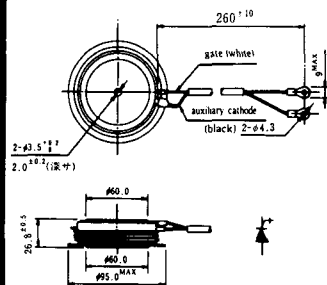
NI-23

1201PGA「E



NI-24

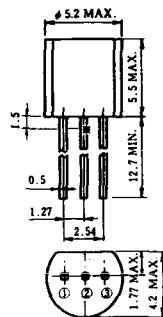
2001PGB¹ J E



NI-25

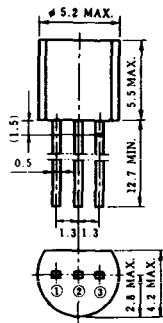
NI-26

NT-1



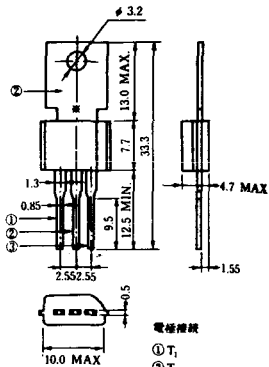
電極接続
① T₁
② ゲート
③ T₂

NT-2



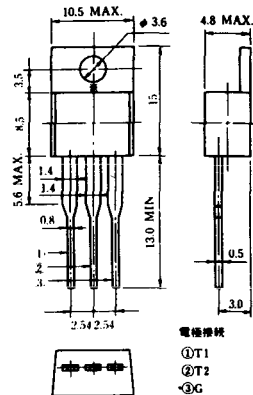
電極接続
① T₁
② ゲート
③ T₂

NT-3



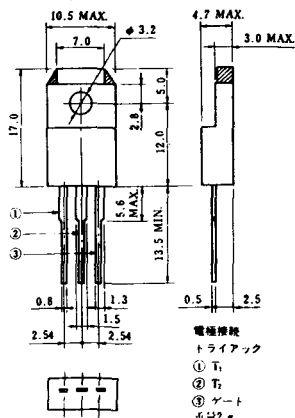
電極接続
① T₁
② T₂
③ ゲート

NT-4



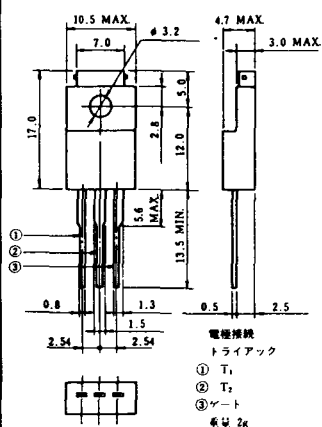
電極接続
① T₁
② T₂
③ G

NT-5



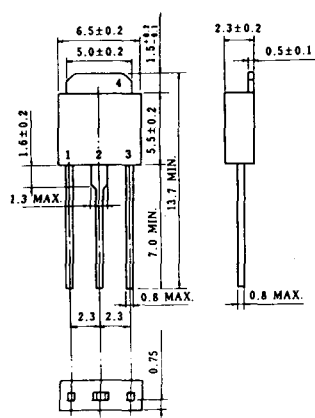
電極接続
トライアック
① T₁
② T₂
③ ゲート
※ 2g

NT-6

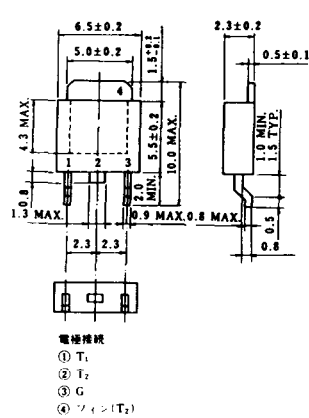


電極接続
トライアック
① T₁
② T₂
③ ゲート
※ 2g

NT-7

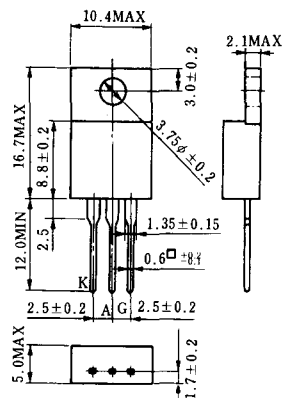


NT-8

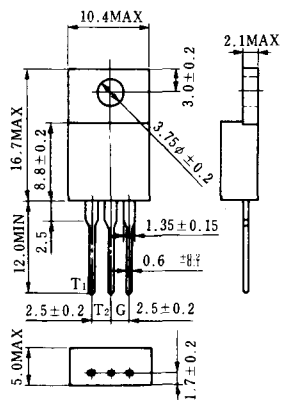


電極接続
① T₁
② T₂
③ G
④ フィン (T₂)

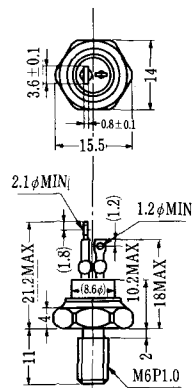
S-1



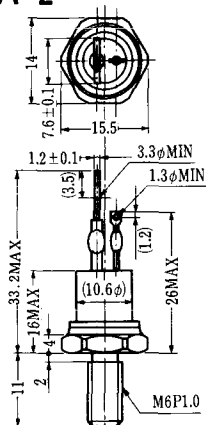
ST-1



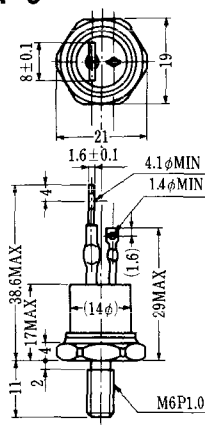
SA-1



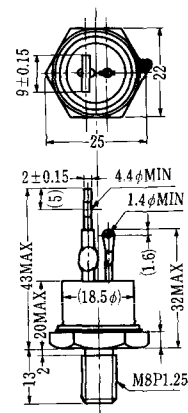
SA-2



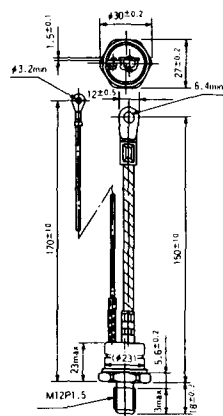
SA-3



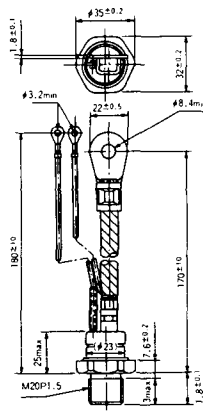
SA-4



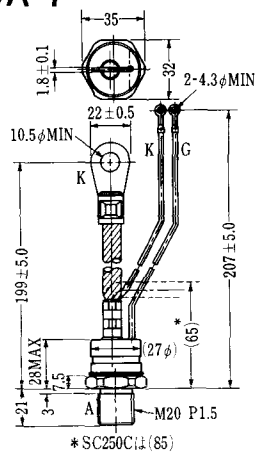
SA-5



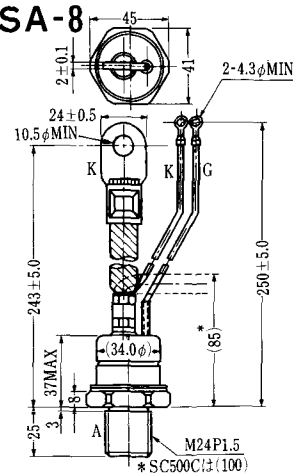
SA-6



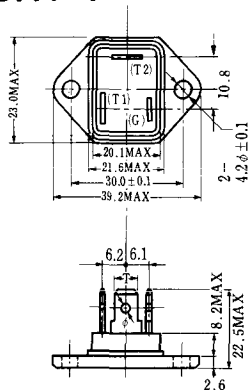
SA-7



SA-8

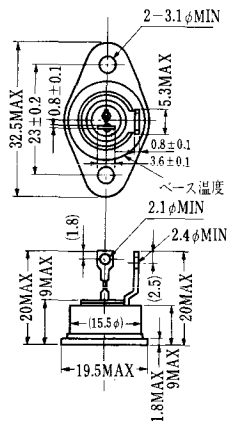


SAT-1

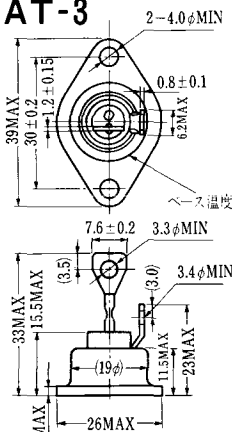


T1端子:ファストン250($T=6.35$, $t=0.8$, $\phi=1.65$)
T2端子:ファストン250($T=6.35$, $t=0.8$, $\phi=1.65$)
G端子:ファストン187($T=4.75$, $t=0.5$, $\phi=1.3$)

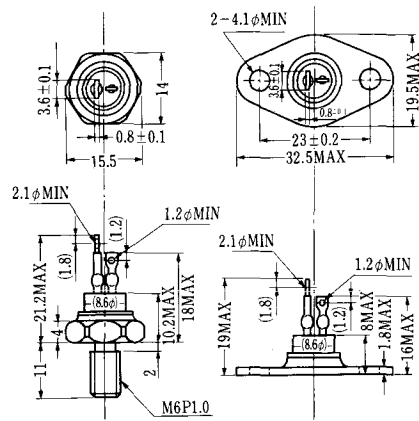
SAT-2



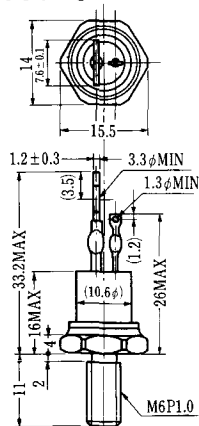
SAT-3



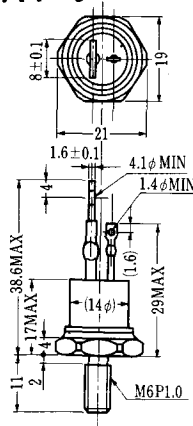
SAT-4



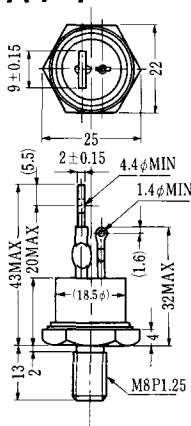
SAT-5



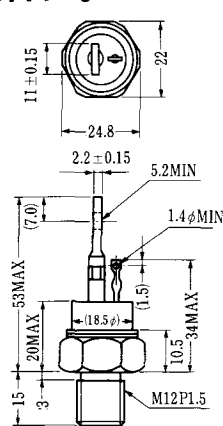
SAT-6



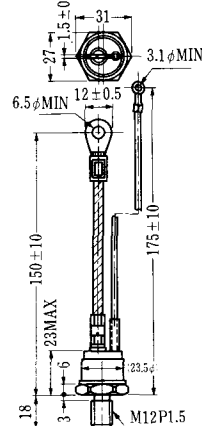
SAT-7



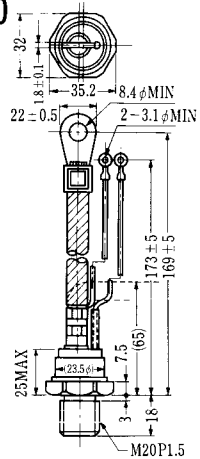
SAT-8



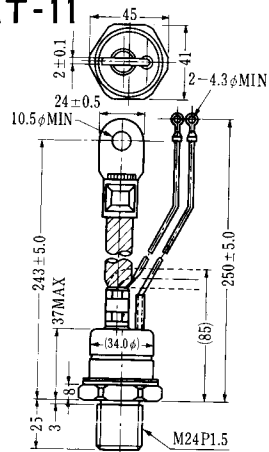
SAT-9.



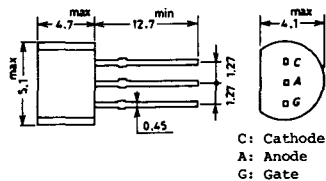
SAT-10



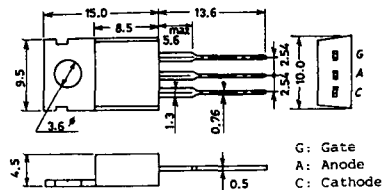
SAT-11



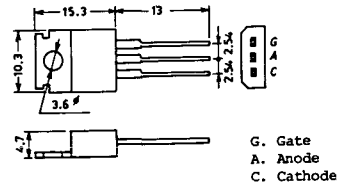
SY-1(1096A)



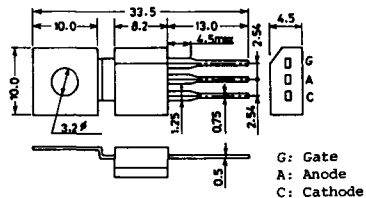
SY-2(1151)



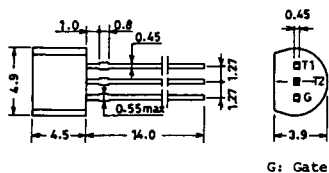
SY-3(1104)



SY-4(1150)

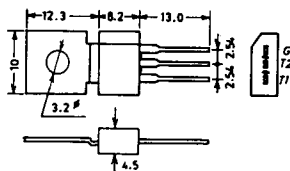


1097A

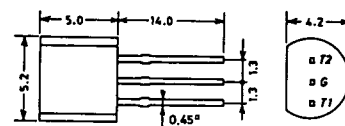


G: Gate

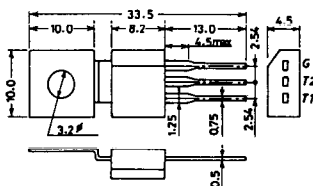
1102



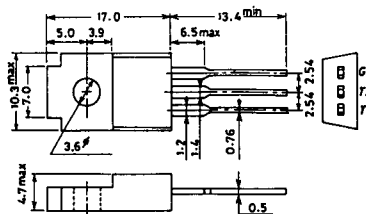
1141



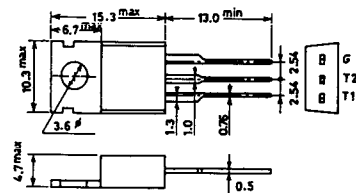
1142



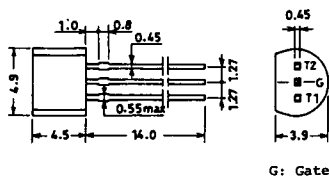
1144



1155

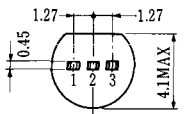
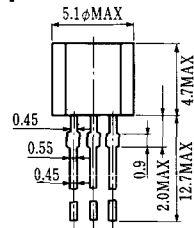


1192A



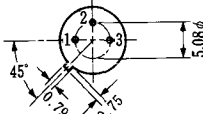
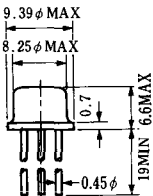
G: Gate

T-1 (13-5A1A)



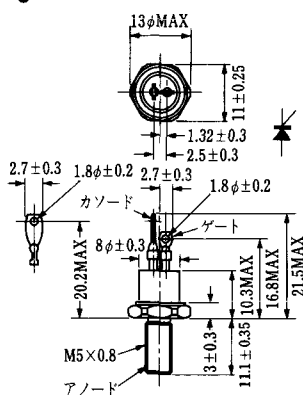
- 1 ゲート
- 2 アノード
- 3 カソード

T-2
(13-8A1A)



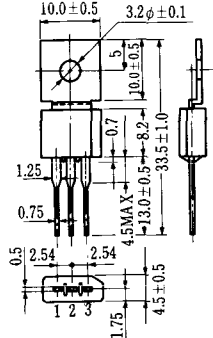
1. カソード
2. ゲート
3. アノード(ケース)

T-3 (13-8C1A)



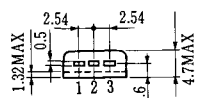
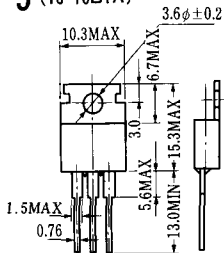
- 1 カソード
- 2 アノード
- 3 ゲート

T-4 (13-10A1A)



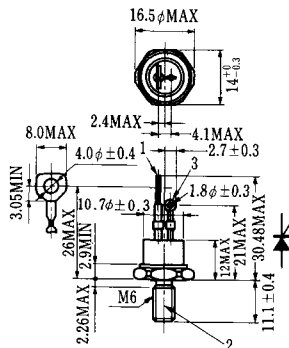
- 1 カソード
- 2 アノード
- 3 ゲート

T-5 (13-10B1A)



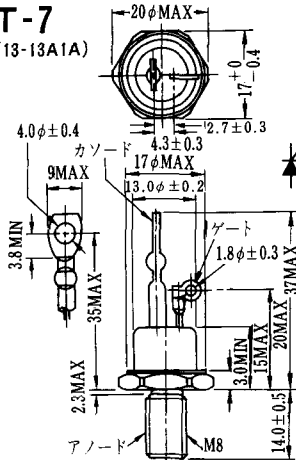
- 1 カソード
- 2 アノード
- 3 ゲート

T-6 (13-11D1A)



- 1 カソード
- 2 アノード
- 3 ゲート

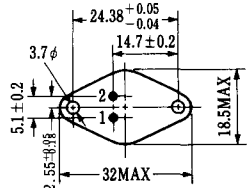
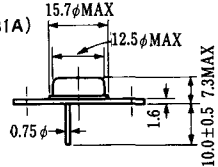
T-7
(13-13A1A)



- アノード

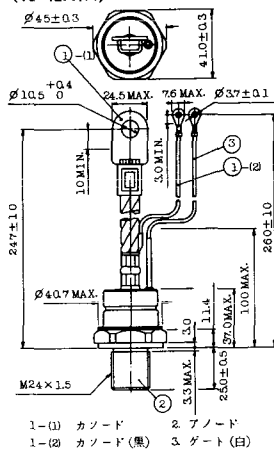
T-8

(13-13B1A)

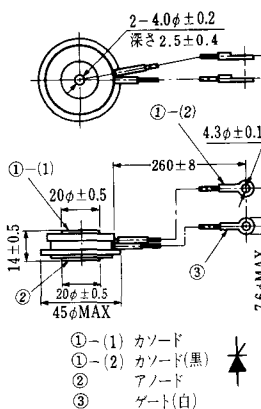


1. ゲート
2. カソード
アノード(ケース)

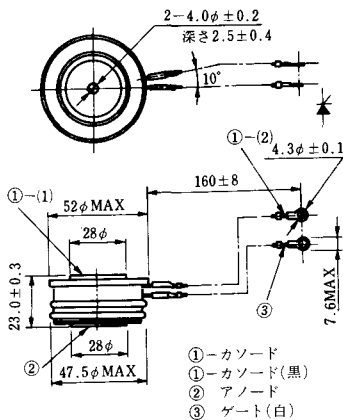
T-17 (13-42A1A)



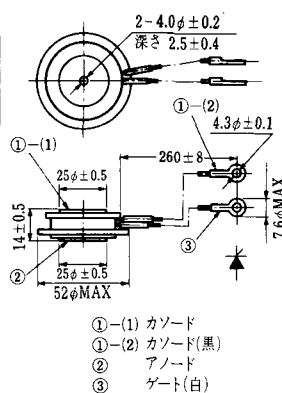
T-18 (13-45D1A)



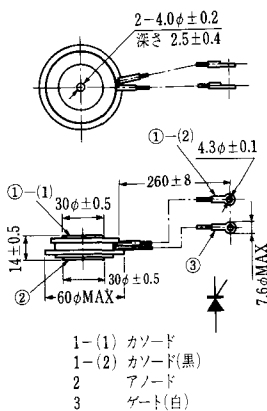
T-19 (13-52B1A)



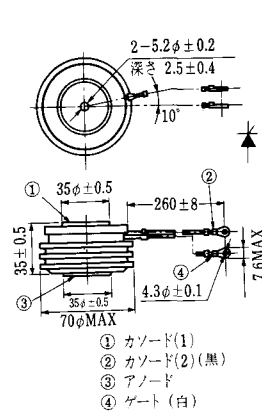
T-20 (13-52C1A)



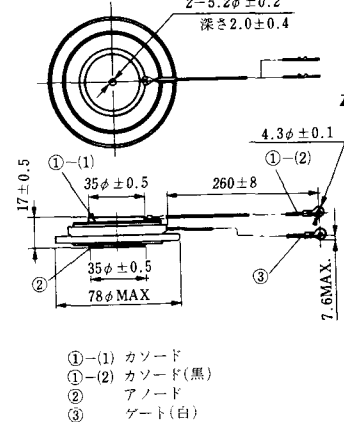
T-21 (13-60A1A)



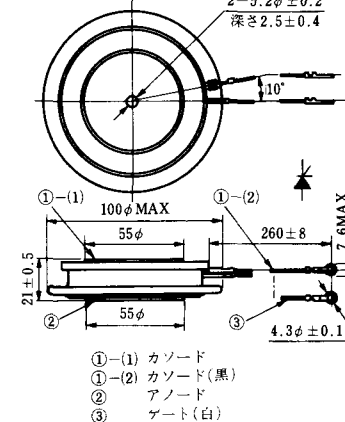
T-22 (13-70C1A)



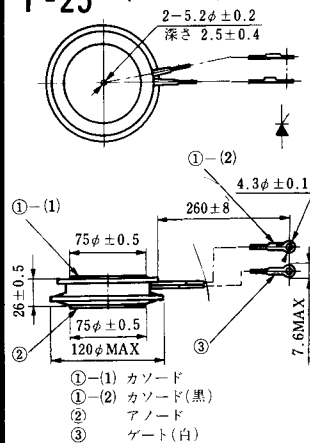
T-23 (13-78A1A)



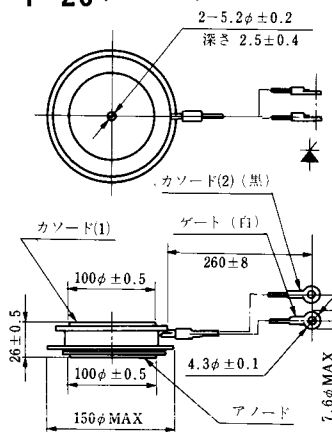
T-24 (13-100C1A)



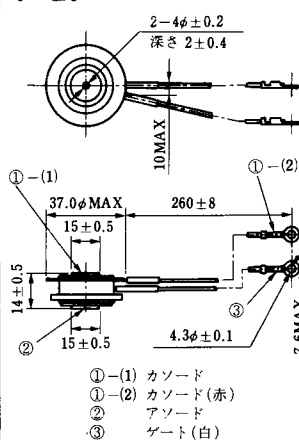
T-25 (13-120A2A)



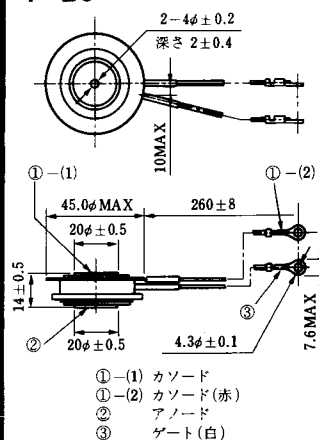
T-26 (13-150A1A)



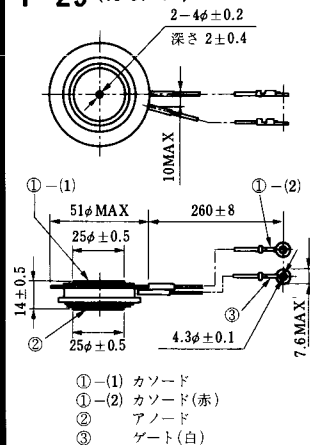
T-27 (13-37A1A)



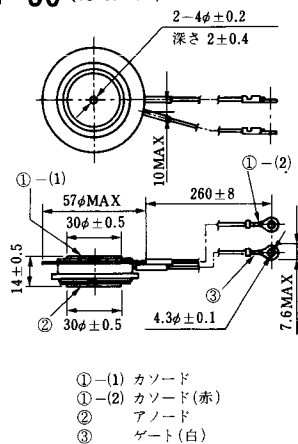
T-28 (13-45E1A)



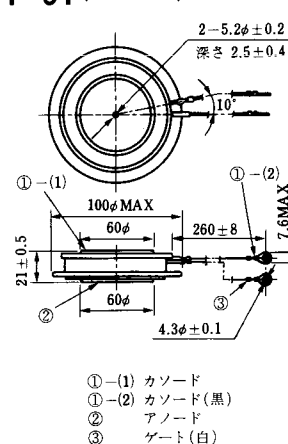
T-29 (13-51A1A)



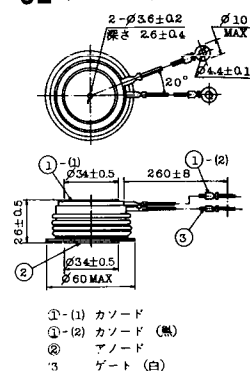
T-30 (13-57A1A)



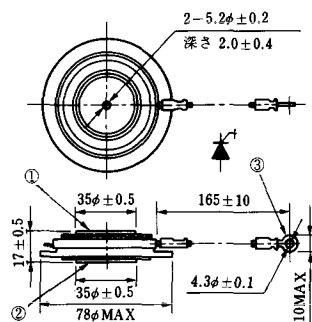
T-31 (13-100E1A)



T-32 (13-60E3A)

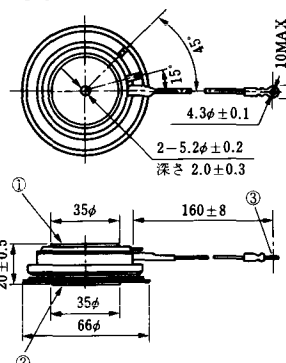


T-33 (13-78B1A)



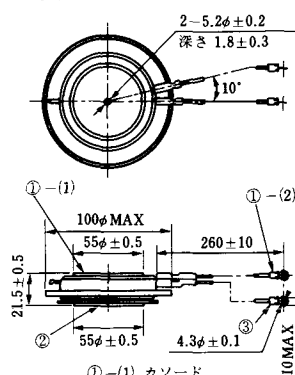
- ① カソード
② アノード
③ ゲート

T-34 (13-66A1A)



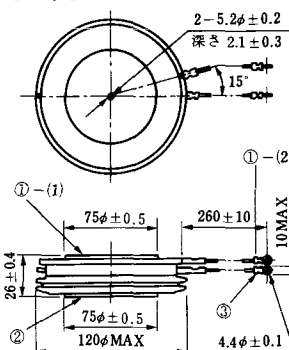
- ① カソード
② アノード
③ ゲート

T-35 (13-100D1A)



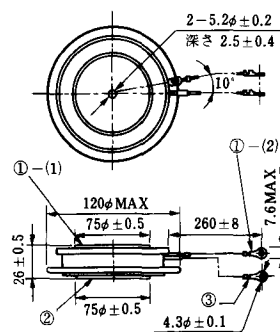
- ①-(1) カソード
①-(2) カソード(黒)
② アノード
③ ゲート(白)

T-36 (13-120E1A)



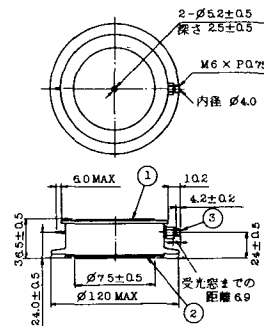
- ①-(1) カソード
①-(2) カソード(黒)
② アノード
③ ゲート(白)

T-37 (13-120A1A)



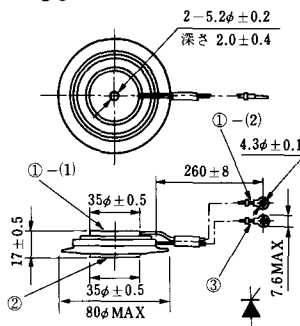
- ①-(1) カソード
①-(2) カソード(黒)
② アノード
③ ゲート(白)

T-38 (13-120C1A)



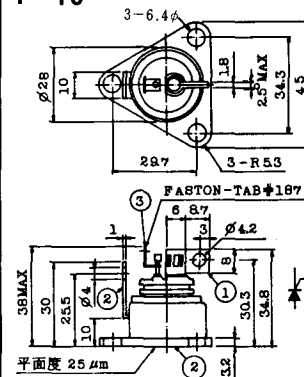
- ① カソード
② アノード
③ ゲート

T-39 (13-80B1A)



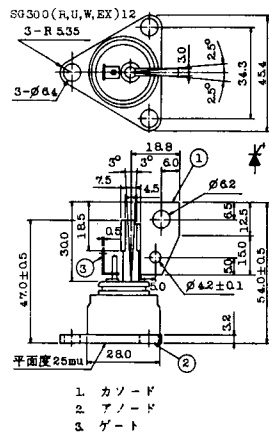
- ①-(1) カソード
①-(2) カソード(黒)
② アノード
③ ゲート(白)

T-40 (13-28A1A)

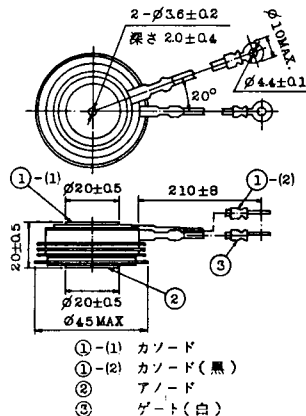


1. カソード
2. アノード
3. ゲート

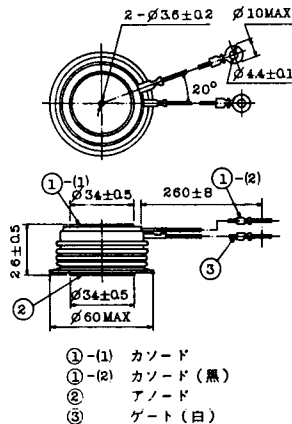
T-41 (13-28A2A)



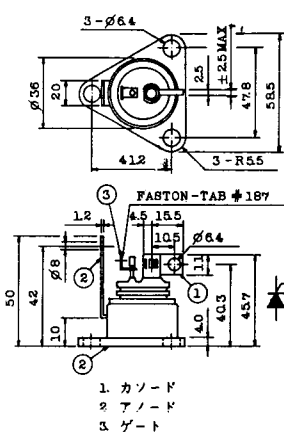
T-42 (13-45F1A)



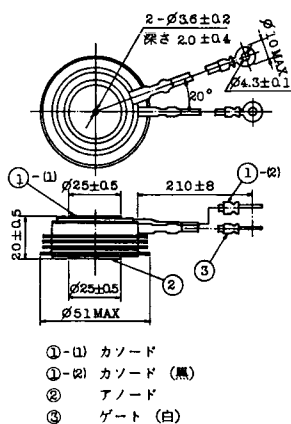
T-43 (13-60E2A)



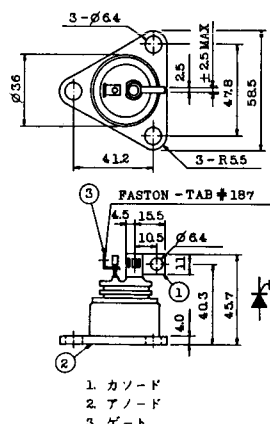
T-44 (13-36A1A)



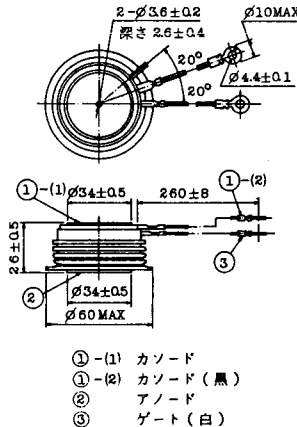
T-45 (13-51B1A)



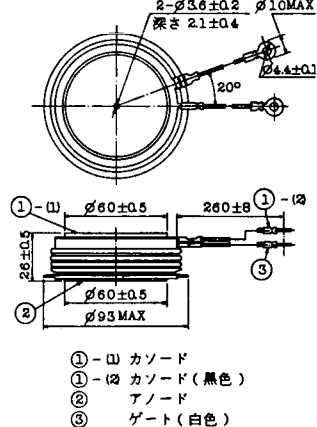
T-46 (13-36B1A)



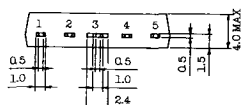
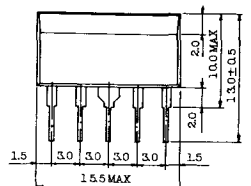
T-47 (13-60E1A)



T-48 (13-93C1A)

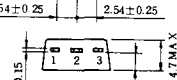
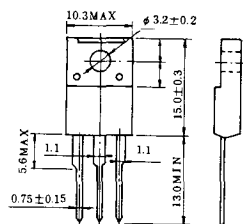


T-57 (12-16C1A)



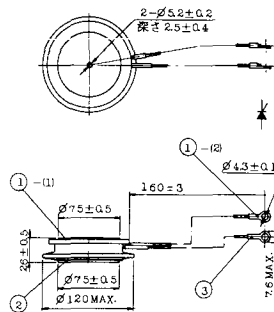
1. アノード (主)
2. ゲート (主)
3. カソード (共通)
4. ゲート (補助)
5. アノード (補助)

T-58 (13-10H1B)



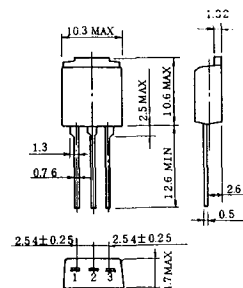
1. カソード
2. アノード
3. ゲート

T-59 (13-120A1A)



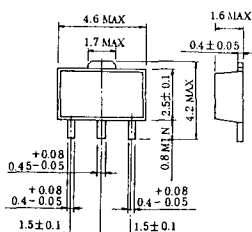
- 1-11 カソード
- 1-12 カソード (黒)
- 2 アノード
- 3 ゲート (白)

T-60



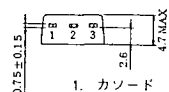
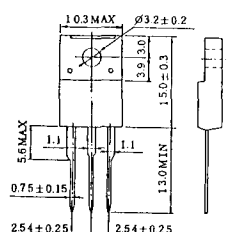
1. カソード
2. アノード
3. ゲート

T-61 (13-5B1A)



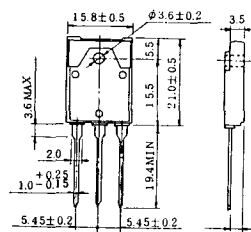
1. ゲート
2. アノード
3. カソード

T-62 (13-10H1A)



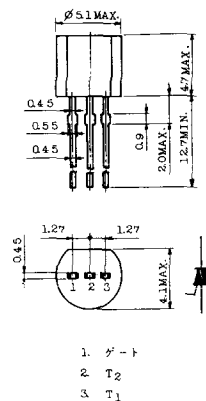
1. カソード
2. アノード
3. ゲート

T-63 (13-16A1B)

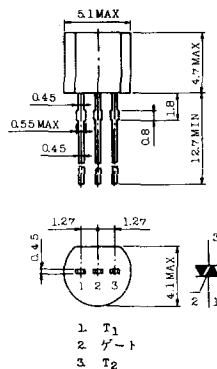


1. カソード
2. アノード
3. ゲート

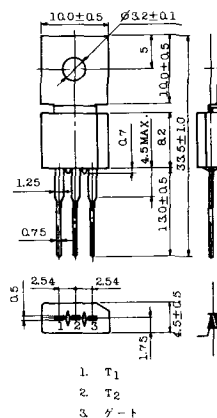
TT-1



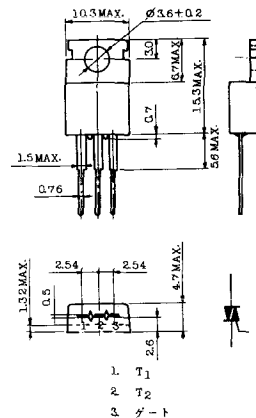
TT-2



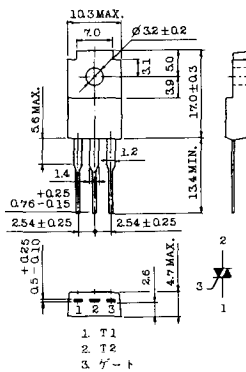
TT-3



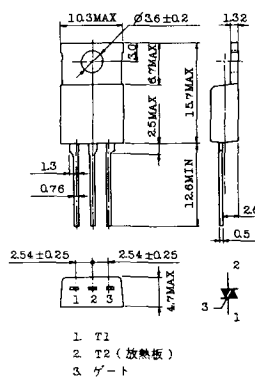
TT-4



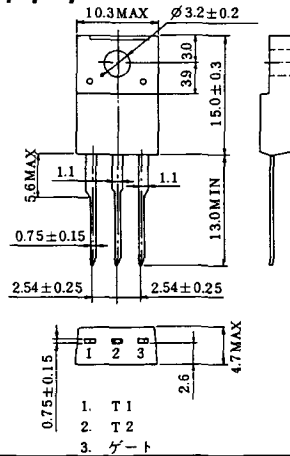
TT-5



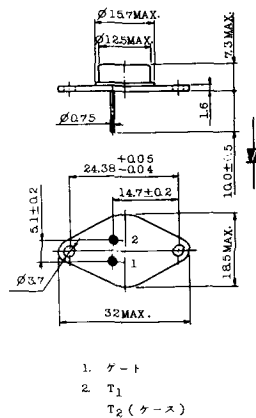
TT-6



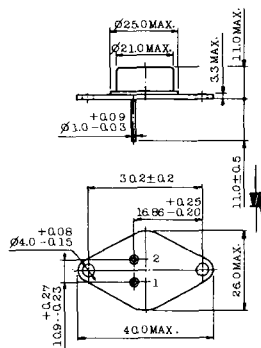
TT-7



TT-8

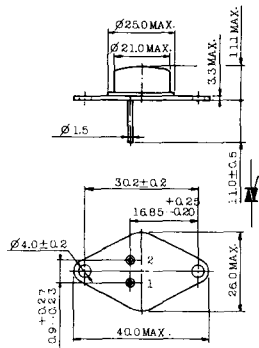


TT-9



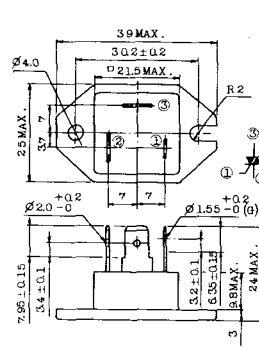
1. ゲート
2. T₁
3. T₂ (ケース)

TT-10



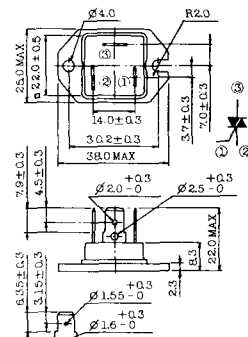
1. ゲート
2. T₁
3. T₂ (ケース)

TT-11



1. ゲート (ファストン端子 #187)
2. T₁ (" #250)
3. T₂ (" #250)

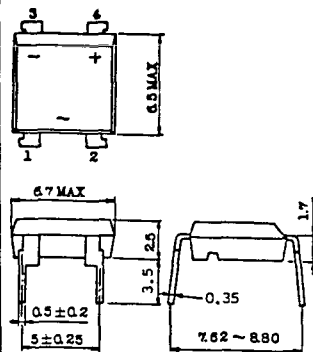
TT-12



ゲート端子詳細

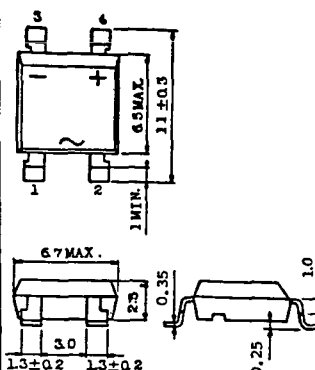
- ① ゲート (ファストン端子 #187)
- ② T₁ (" #250)
- ③ T₂ (" #250)

TT-13



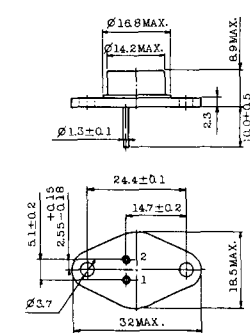
- 1, 2: T₂
- 3: GATE
- 4: T₁

TT-14



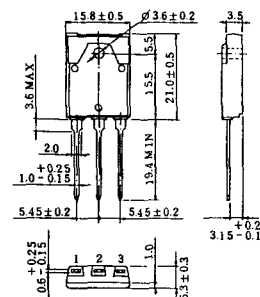
- 1, 2: T₂
- 3: GATE
- 4: T₁

TT-15 (13-14A1B)



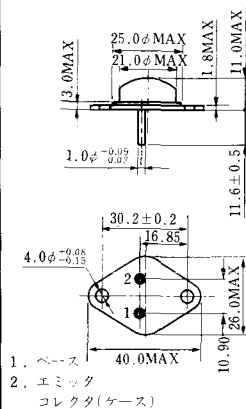
1. ゲート
2. T₁
- T₂ (ケース)

TT-16 (13-16A1A)

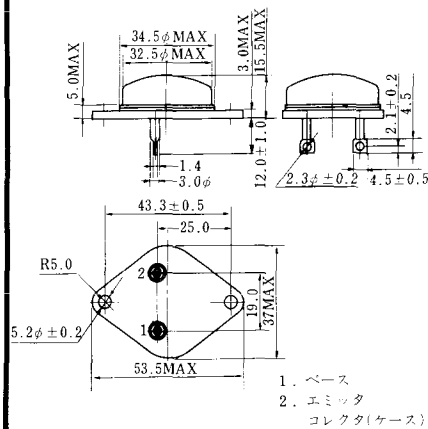


1. T₁
2. T₂
3. ゲート

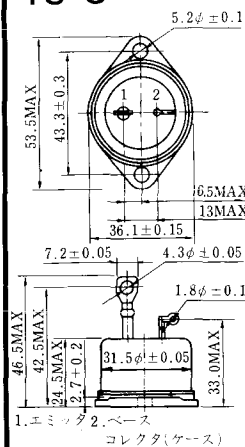
TS-1



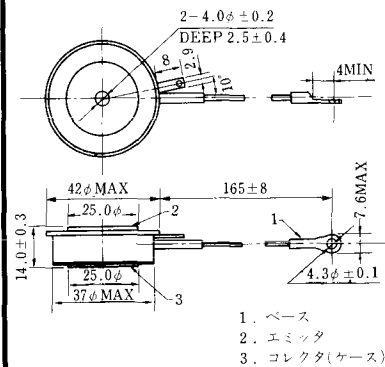
TS-2



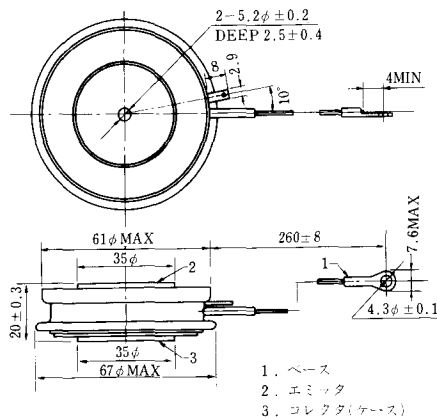
TS-3



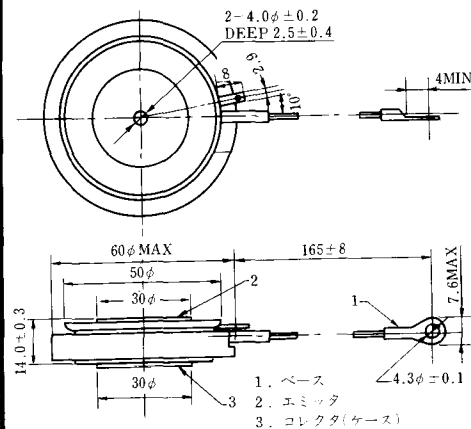
TS-4



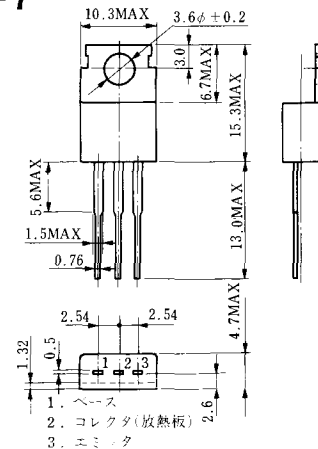
TS-5



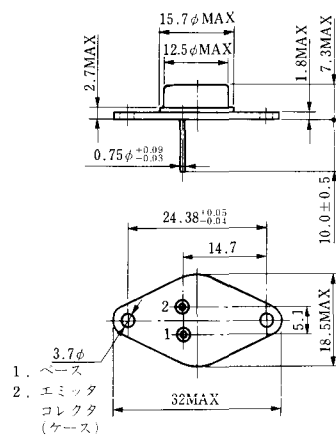
TS-6

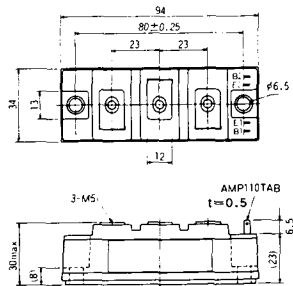
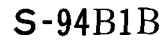
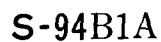
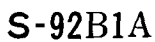
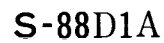
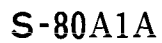


TS-7

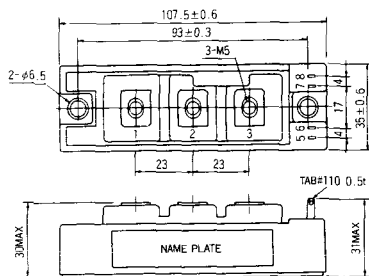


TS-8

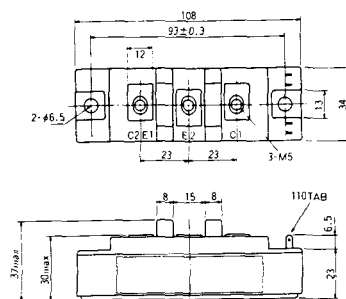




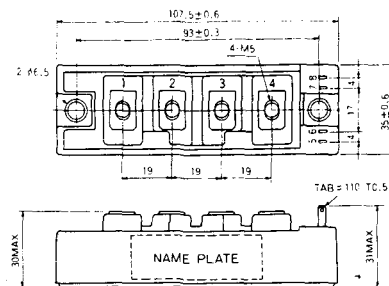
S-108B1A



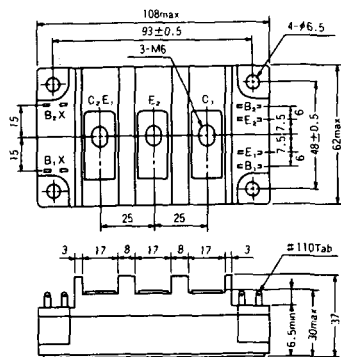
S-108B1B



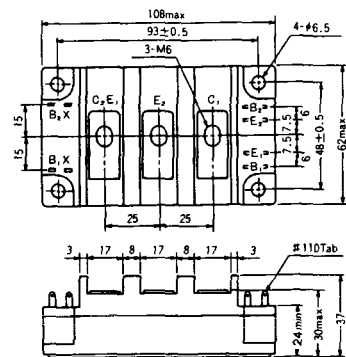
S-108B1C



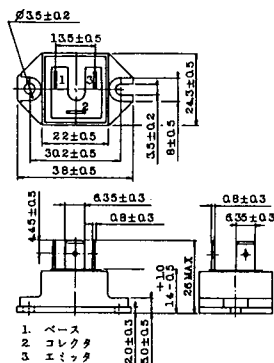
S-108B2A



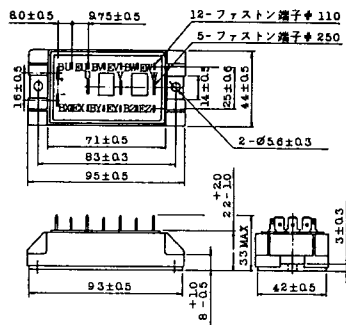
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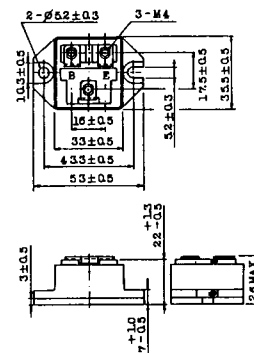
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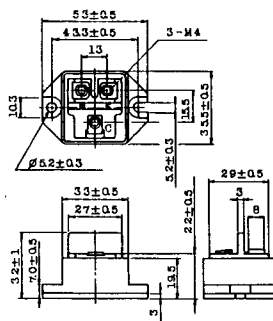
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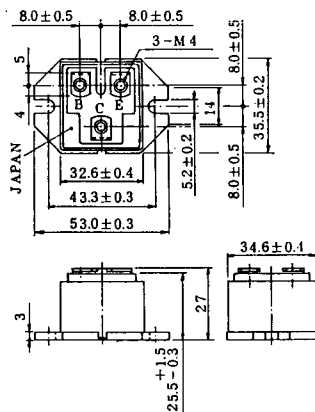
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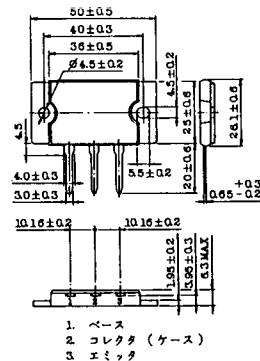
2-33D1A



2-33F1A

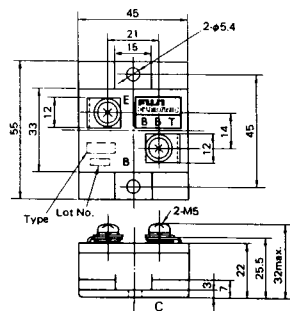


2-37A1A



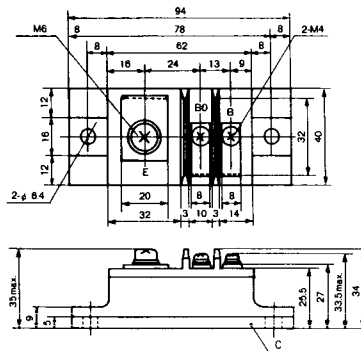
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BBTII
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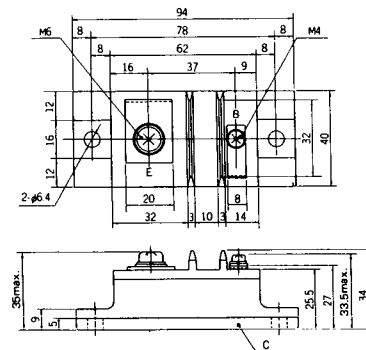
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BBTIII
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ETN36-030
ETN35-030



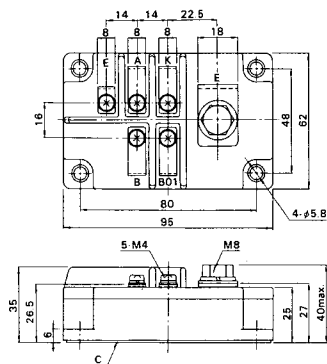
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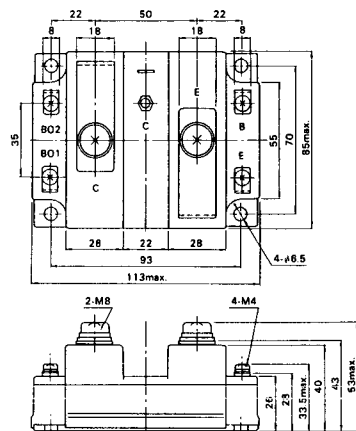


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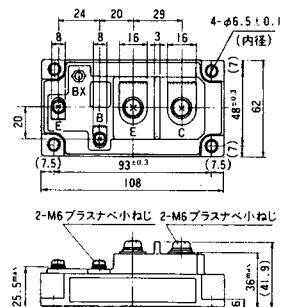
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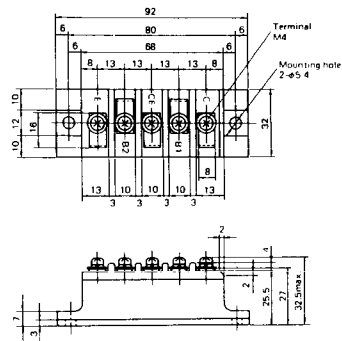
M-107



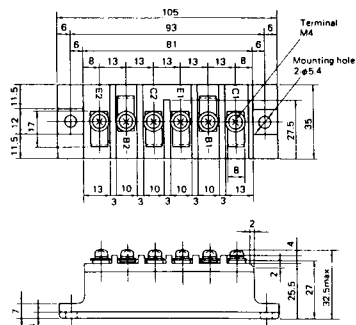
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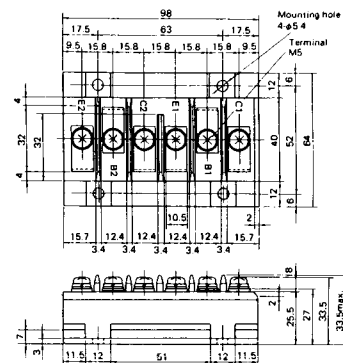
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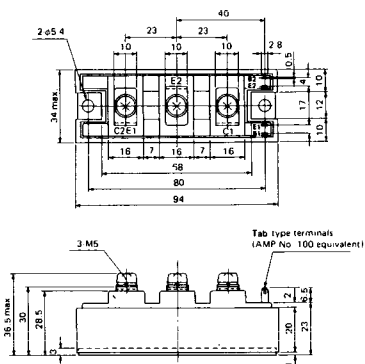
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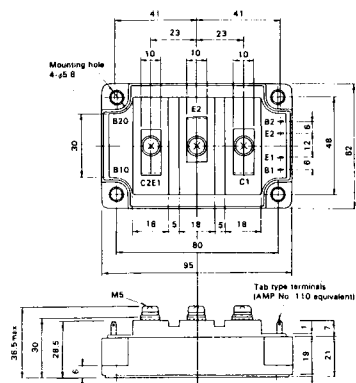
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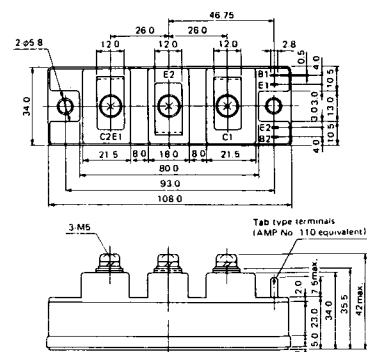
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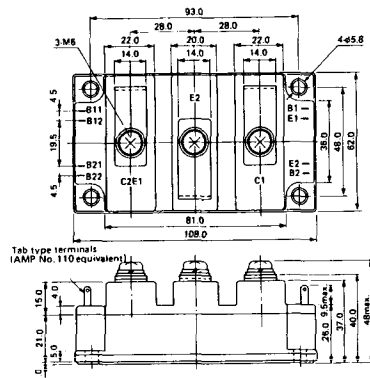
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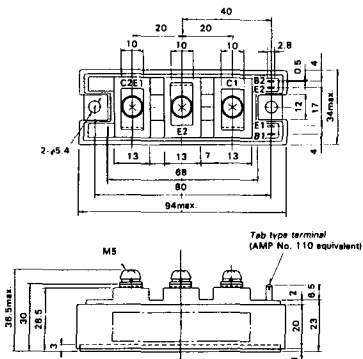
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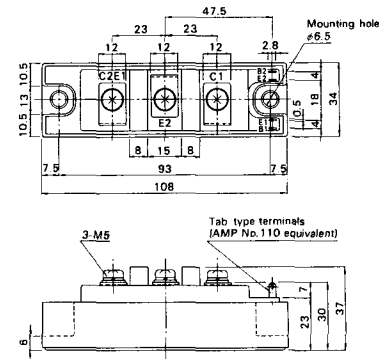
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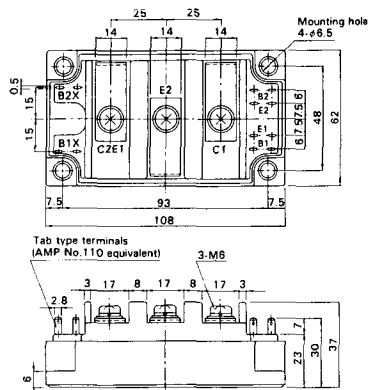
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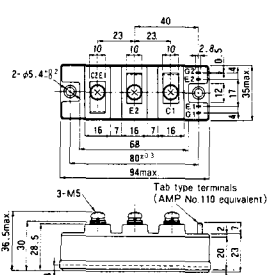
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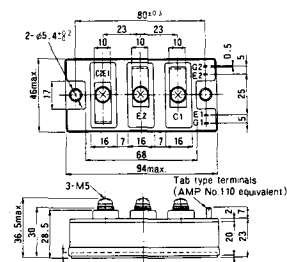
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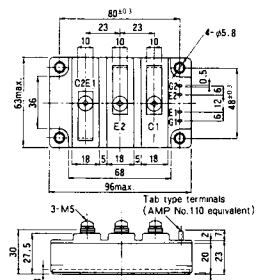
M-211



M-212

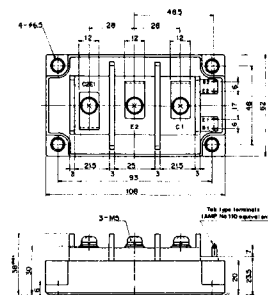


M-213

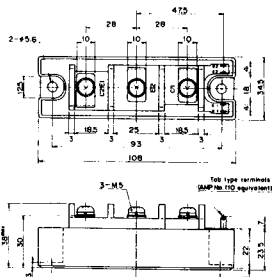


M-214

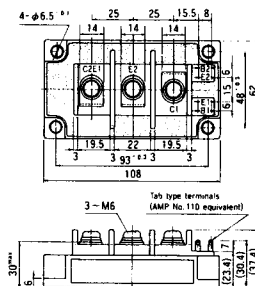
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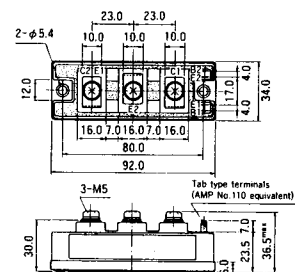
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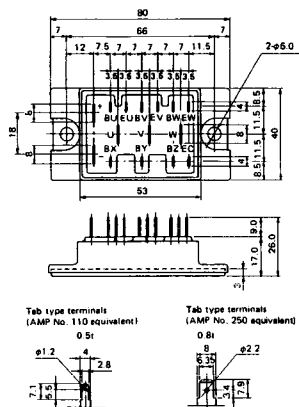
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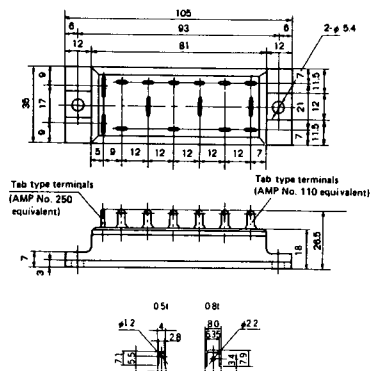
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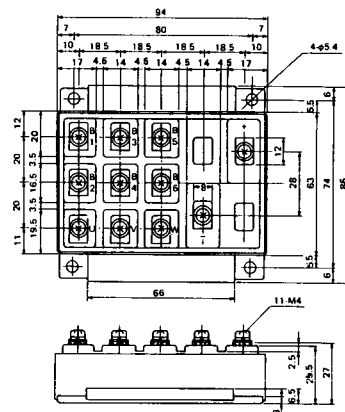
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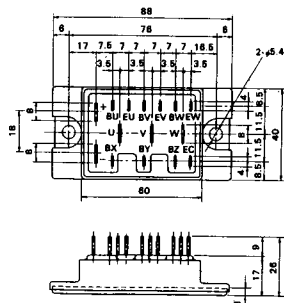
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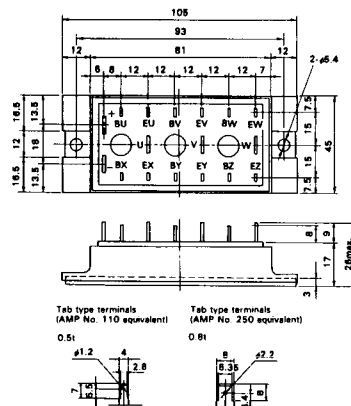
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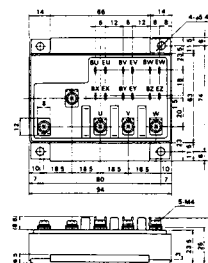
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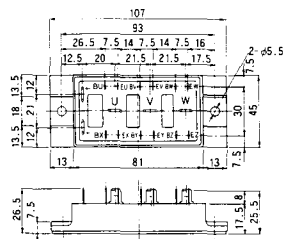
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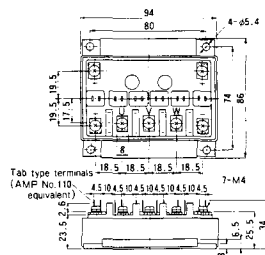
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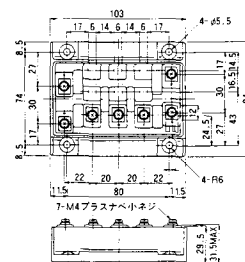
M-607



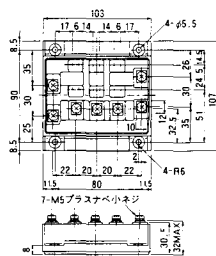
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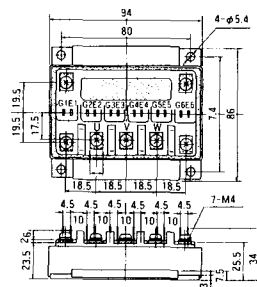
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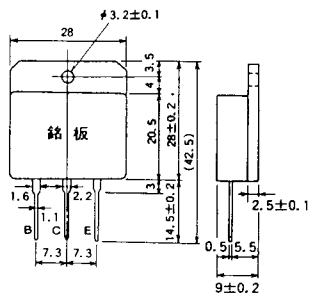
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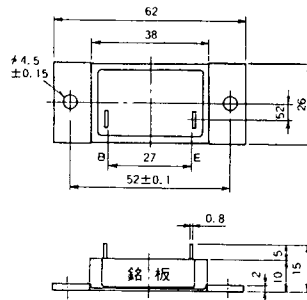
M-616



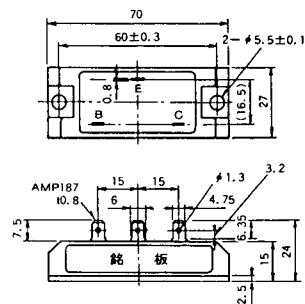
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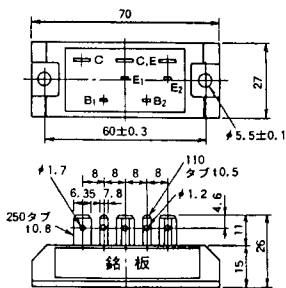
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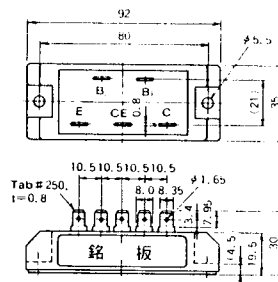
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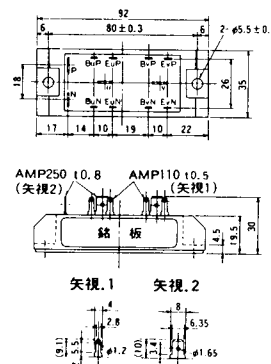
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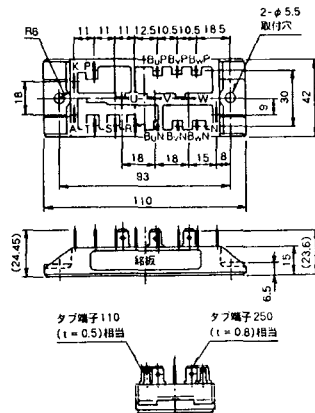
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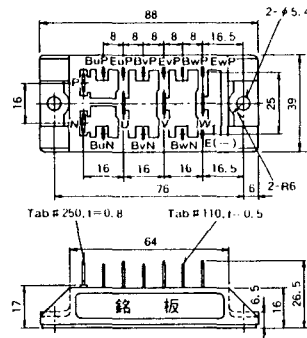
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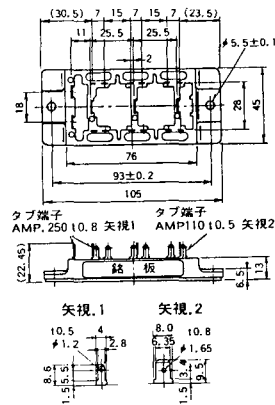
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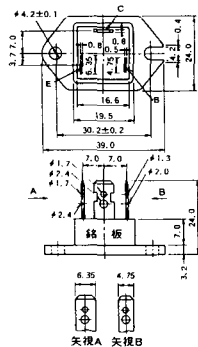
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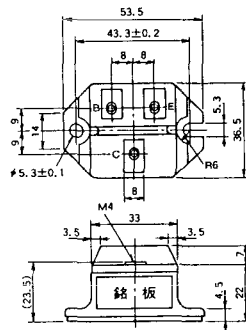
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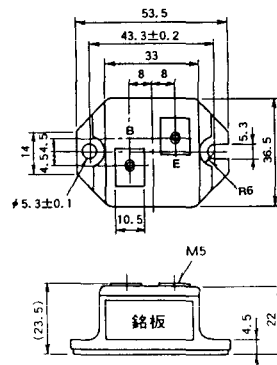
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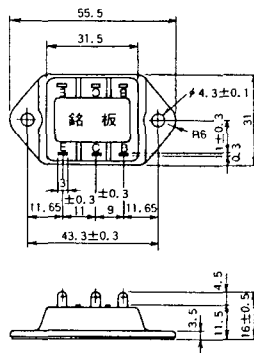
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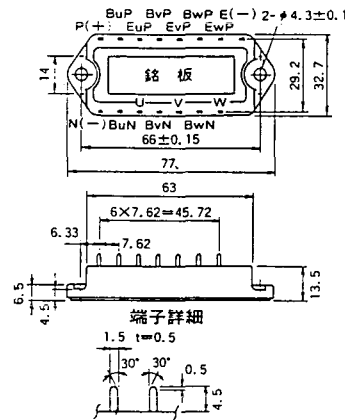
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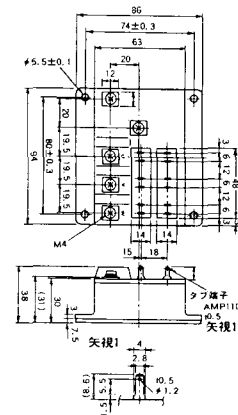
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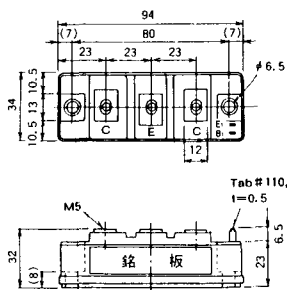
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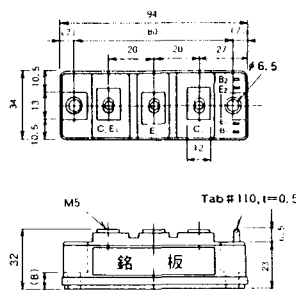
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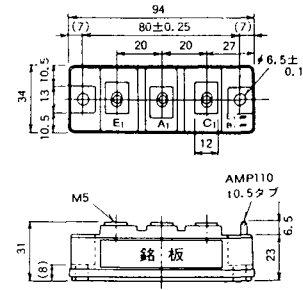
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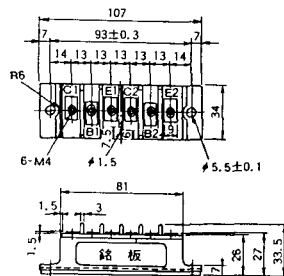
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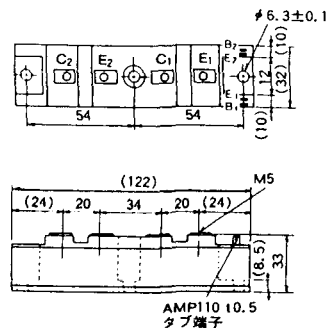
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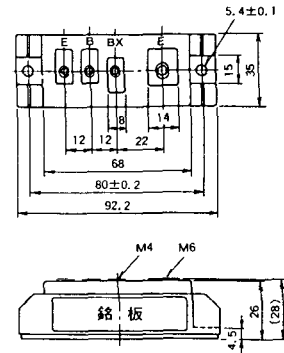
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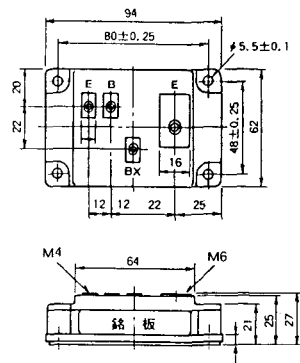
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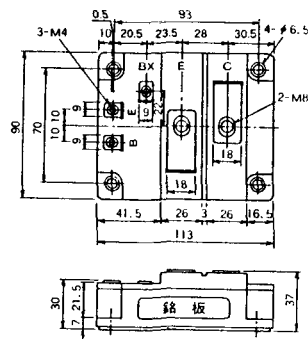
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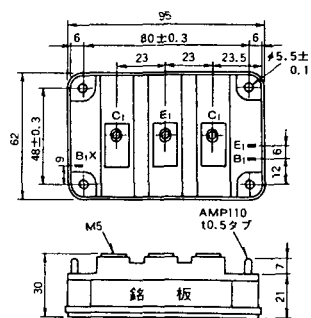
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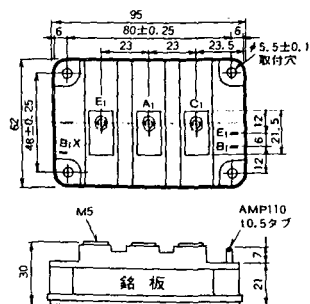
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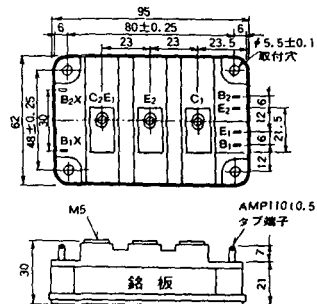
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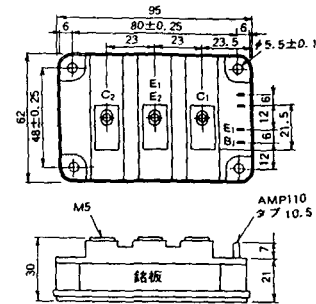
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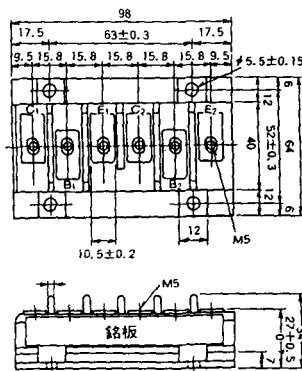
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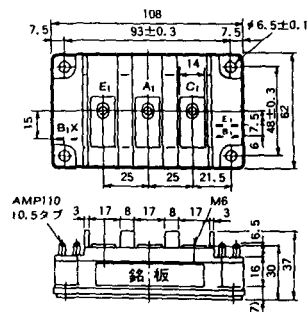
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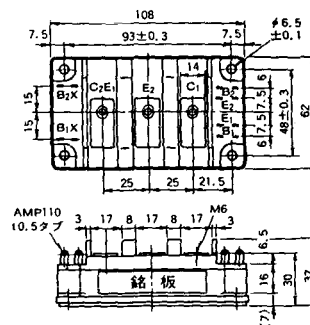
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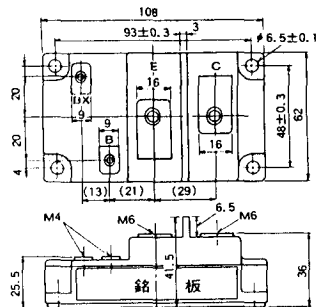
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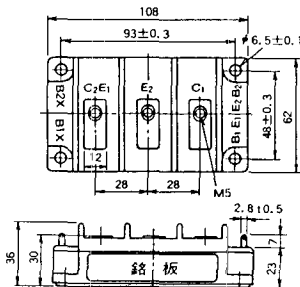
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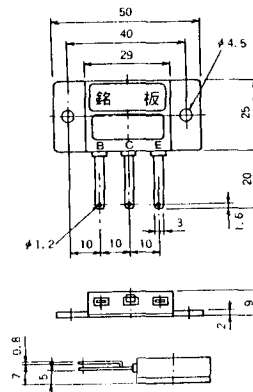
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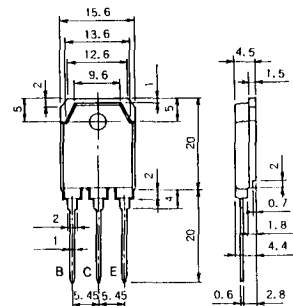
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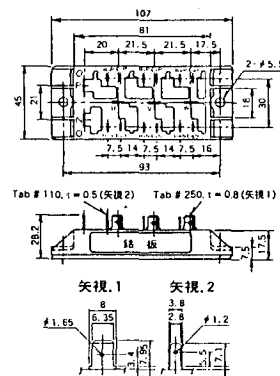
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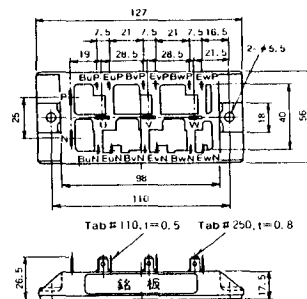
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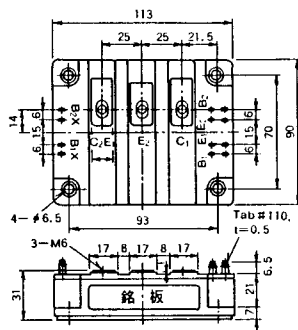
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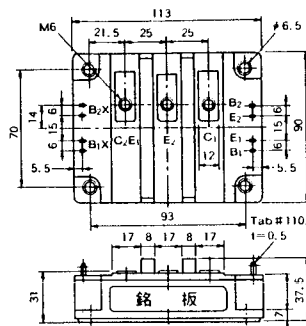
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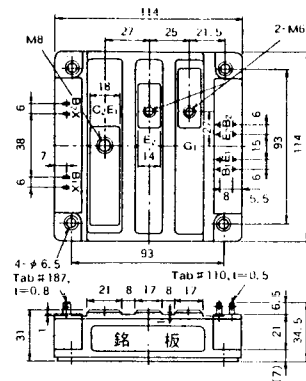
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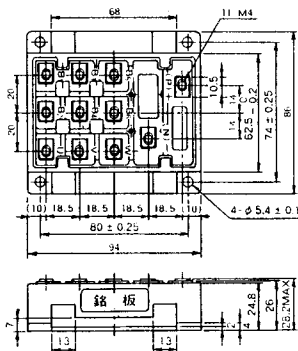
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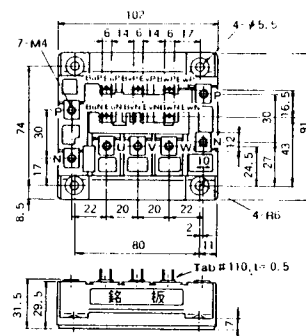
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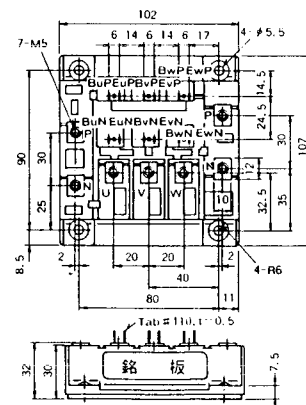
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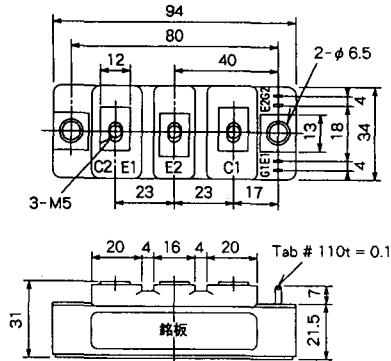
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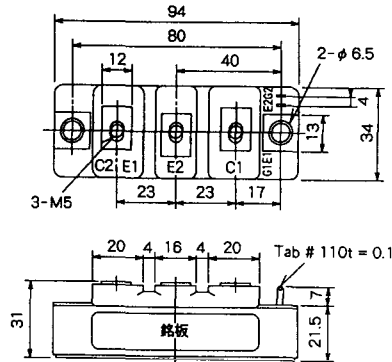
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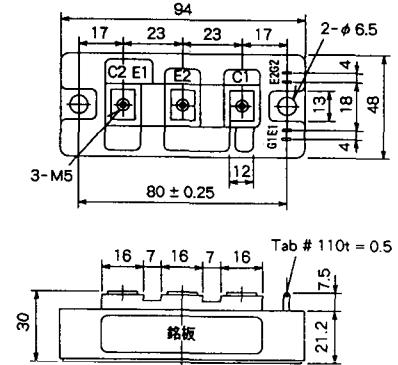
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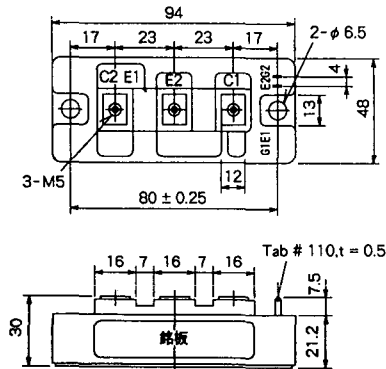
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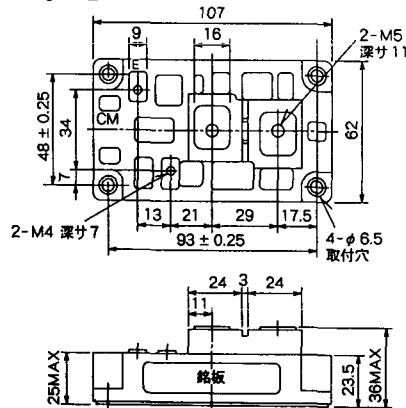
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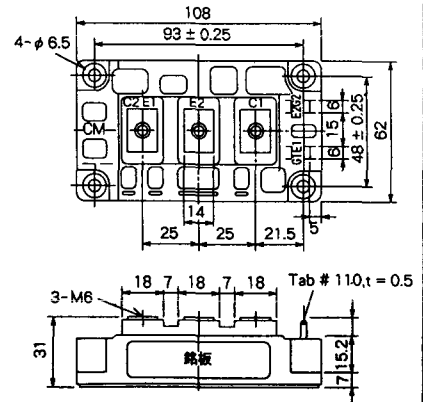
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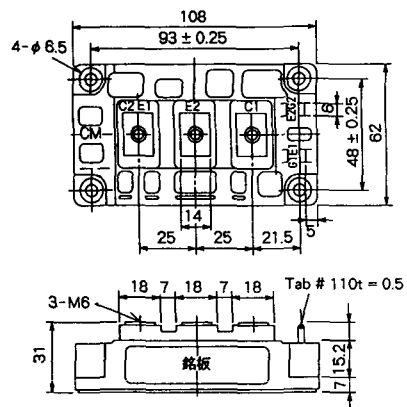
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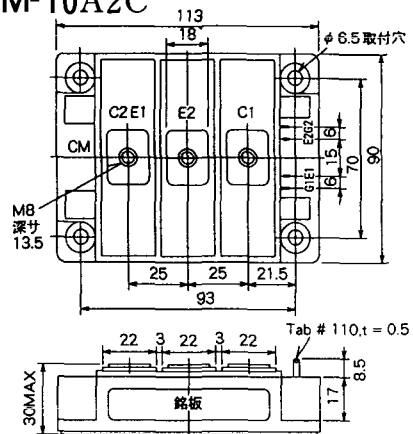
M-9D2A



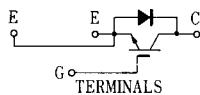
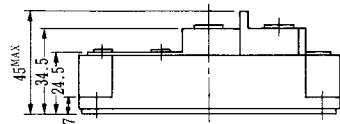
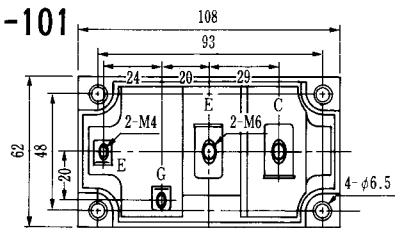
M-9D2B



M-10A2C



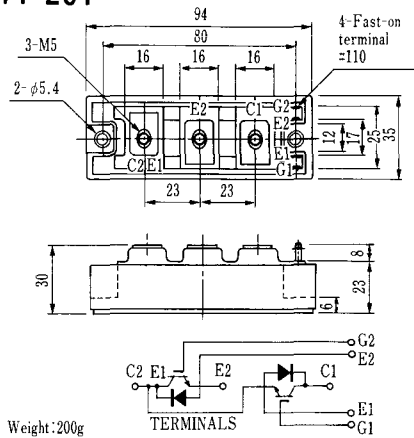
H-101



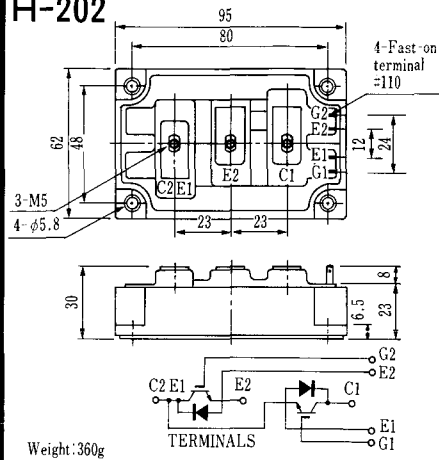
Weight :480g

TERMINALS

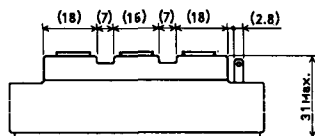
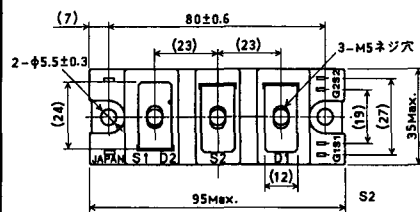
H-201



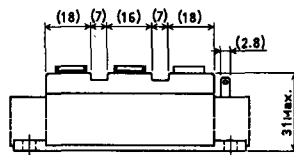
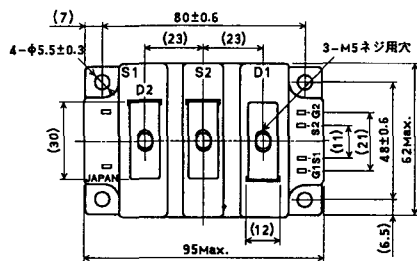
H-202



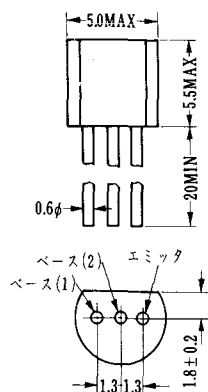
LF-J



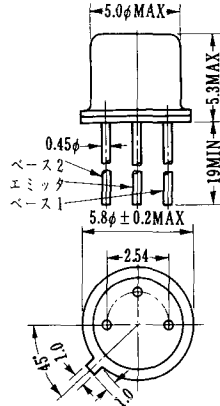
LF-K



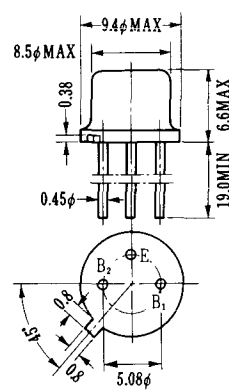
U-1



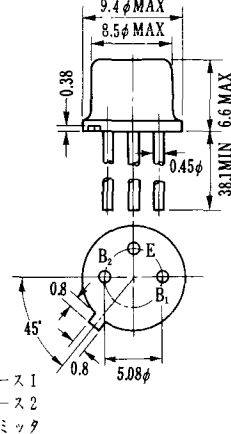
U-2



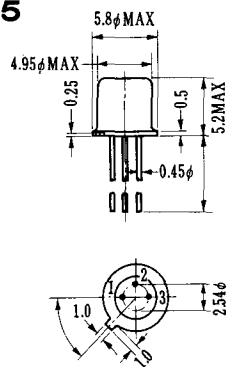
U-3



U-4

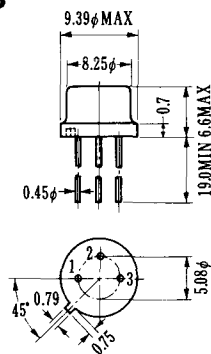


U-5



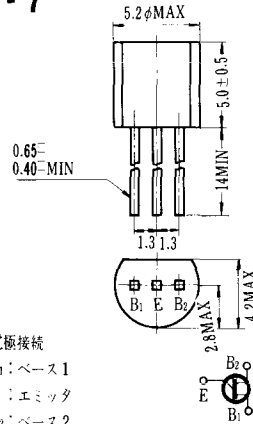
1. BASE 1
2. EMITTER
3. BASE 2 (CASE)

U-6



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

U-7



U-8

