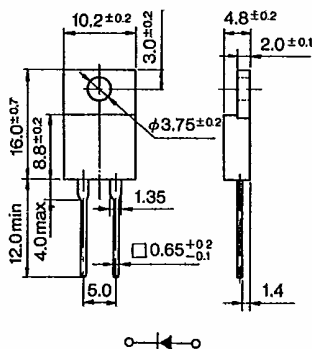


■Io:4.0~20A

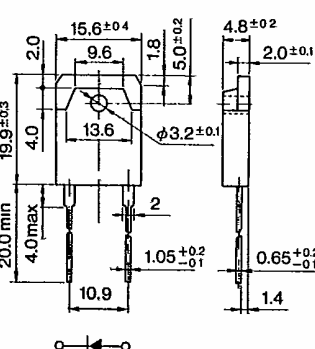
CTU/FMU

[illegible]

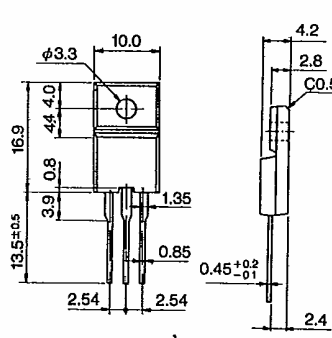
Outline Drawing ④5



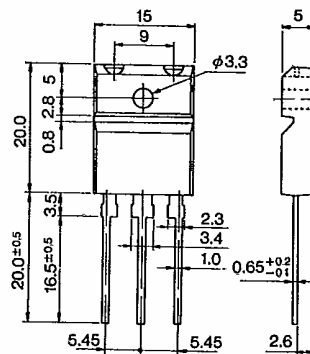
Outline Drawing ④6



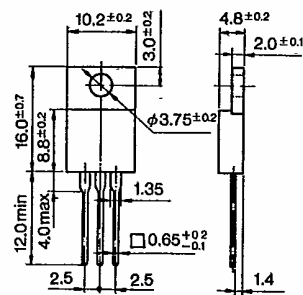
Outline Drawing ④7



Outline Drawing ④⑧



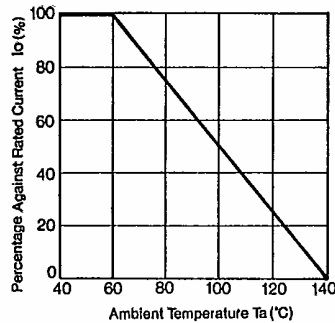
Outline Drawing ④9



④5 ~ ④9 Plastic Molded Flammability : UL94V-0 or Equivalent

CTU-G2R
CTU-G3R

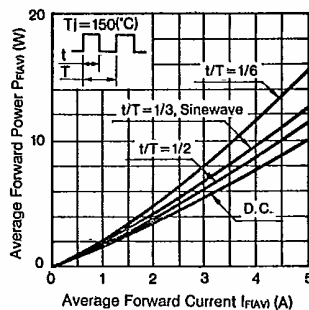
$I_o - T_a$ Deratings



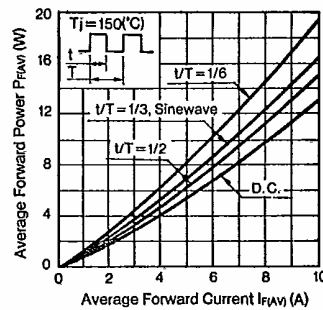
FMU Series

$P_{F(AV)} - I_{F(AV)}$ Characteristics

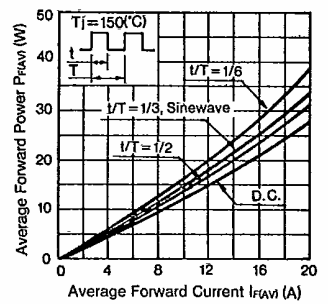
FMU-1



FMU-2

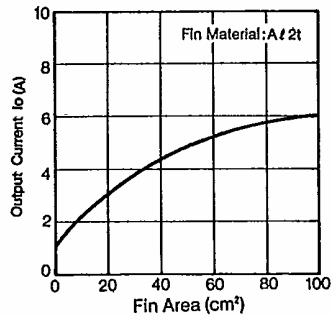


FMU-3

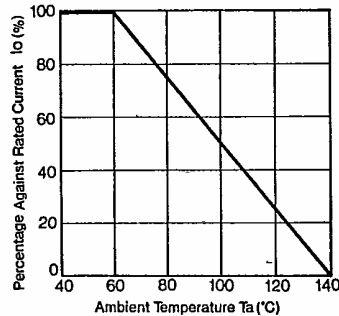


CTU-1 Series

$I_o - \text{Fin}$ Characteristics

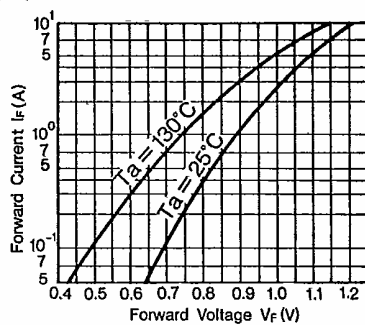


$I_o - T_a$ Deratings

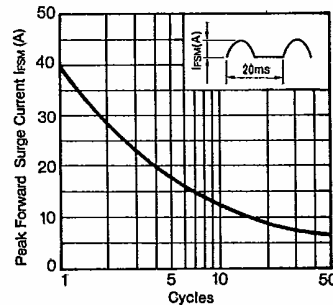


CTU-2 Series

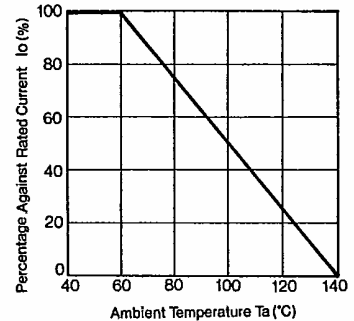
$I_F - V_F$ Characteristics



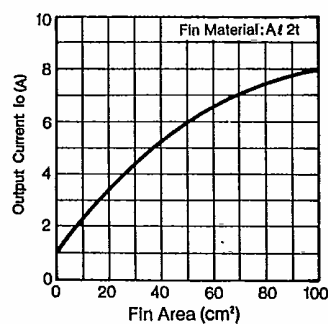
I_{FSM} Characteristics



$I_o - T_a$ Deratings

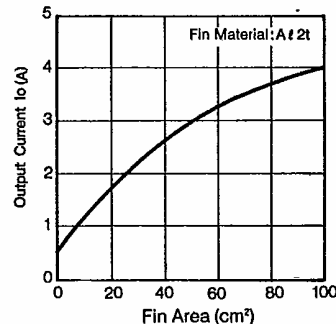


$I_o - \text{Fin}$ Characteristics

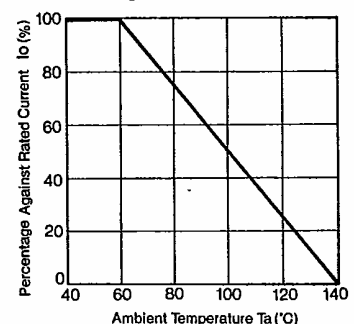


CTU-22U

$I_o - \text{Fin}$ Characteristics



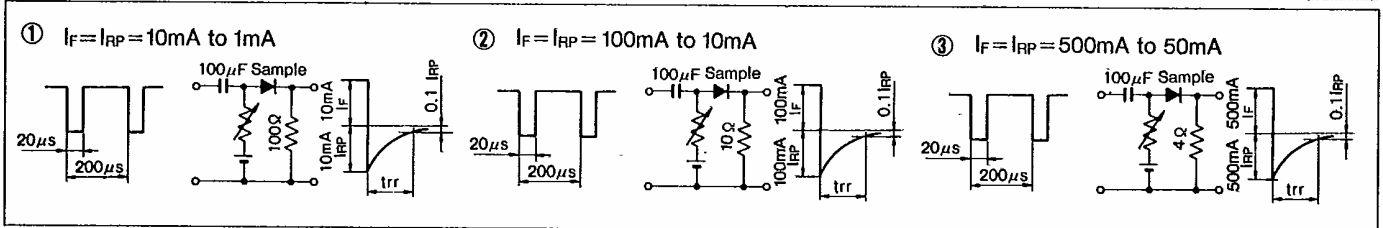
$I_o - T_a$ Deratings



Symbols

V_{RSM}	Peak Reverse Surge Voltage	I_{RSM}	Peak Reverse Surge Current	T_{stg}	Storage Temperature
V_{RM}	Peak Reverse Voltage	I_R	Reverse Current	t_{rr}	Reverse Recovery Time
V_{P-P}	Reverse Voltage (Peak to Peak)	I_{RP}	Peak Reverse Current	C_t	Total Capacitance Between Terminals
V_R	Reverse Voltage	$I_{R(H)}$	Reverse Current (High Temperature)	$R_{th(j-c)}$	Thermal Resistance, Junction to Case
V_F	Forward Voltage	I_Z	Avalanche Current	r_z	Temperature Coefficient of Breakdown Voltage
V_B	Breakdown Voltage	I_{ZSM}	Allowable Avalanche Current	R_z	Equivalent Resistance of Breakdown Region
I_o	Average Rectified Forward Current	T_a	Ambient Temperature	$P_{F(AV)}$	Average Forward Power Dissipation
I_F	Forward Current	T_j	Junction Temperature	I_t^2	I_t^2 limiting Value
$I_{F(AV)}$	Average Forward Current	T_{opr}	Operating Ambient Temperature		
I_{FSM}	Peak Forward Surge Current	T_c	Case Temperature		

Reverse Recovery Time Measurement Circuit



Taping Specifications

Excluding High Voltage Diodes

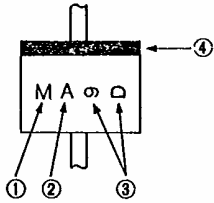
Designation	Dimension (in mm)	Packaging Dimension and Marking	Quantity
V Add Suffix [V] to Type No.	Tape Carrier Method (1) Right side of taping direction is cathode. (2) Place electrode side down when casing. (3) Provide leader tape of 150~200mm at beginning of tape. (4) Provide space of more than 10 pitches each for beginning and end of tape.	Reel Marking of Type No., Lot No. and Quantity 	1,800 pcs per reel
V Add Suffix [V] to type No.	Axial Taping 	Reel Markings of Type No. Lot No. and Quantity 	5,000 pcs per reel (2.7φ body) 3,000 pcs per reel (4.0φ body)

Taping Specifications

Designation	Dimension (in mm)	Packaging Dimension and Marking	Quantity
V1 Add Suffix [V1] to Type No.	Axial Taping 	Ammunition Pack 	2,000 pcs per box (2.7 ϕ body) 1,000 pcs per box (4.0 ϕ body)
VO Add Suffix [VO] to Type No.	Axial Taping 	Ammunition Pack 	2,000 pcs per box (2.7 ϕ body) (2.4 ϕ body)
V3 Add Suffix [V3] to Type No.	Axial Taping 	Reel 	1,500 pcs per reel (5.2 ϕ body)
V4 Add Suffix [V4] to Type No.	Axial Taping 	Ammunition Pack 	1,000 pcs per box (5.2 ϕ body)
W Add Suffix [W] to Type No.	Radial Taping 	Ammunition Pack 	4,000 pcs per box (2.7 ϕ body) (0.6 ϕ lead)
WS Add Suffix [WS] to Type No.	Radial Taping (Applicable to AO Series) 	Ammunition Pack 	2,500 pcs per box (2.4 ϕ body)
WK Add Suffix [WK] to Type No.	Radial Taping (Applicable to AO Series) 		

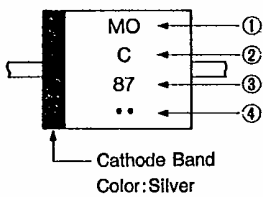
Marking Guide

1 Small TMD



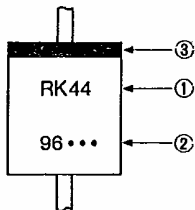
- ①Type Designation (in abbreviation)
AM01 is abbreviated as M.
- ②Class Designation
Z:200V, No Letter: 400V, A: 600V
- ③A: Year (Last Number of AD Year)
B: Month (Jan. to Sept. are represented by numbers 1 to 9 respectively, and Oct., Nov., and Dec. are abbreviated as O, N and D respectively)
- ④Cathode Band: Successive Band, however AU02 Type is Non-Successive Band.

2 E/EO Type TMD



- ①Type Designation (in abbreviation)
EM01 is abbreviated as MO, EM2 is abbreviated as M2.
- ②Class Designation
Z:200V, No Letter: 400V, A: 600V
B: 800 V, C: 1000V, F: 1500V
However, EU02A to be marked 2A, and EU2YX to be marked Y.
- ③Abbreviations Representing Production Period
A: Year (Last Number of AD Year)
B: Month (1~9, 0, N, D)
- ④Production Period Divided in 3 ten day terms
.: 1st 10days ..: 2nd 10days ...: 3rd 10days

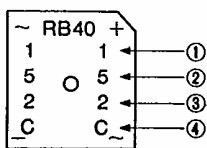
3 R Type TMD



- ①Type Designation: Mark in 2 sets
- ②Production Period: Mark in 4 sets
A: Year (Last Number of AD Year)
B: Month (1~9, 0, N, D)
- ③Production Period Divided in 3 ten day terms
.: 1st 10days ..: 2nd 10days ...: 3rd 10days
- ④Cathode Band Color: Silver: For Power Supply
Yellow: For Middle Speed
Red : For High Speed and Ultra-High Speed

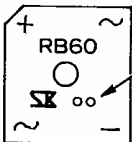
4 RB40/60

(RB40 Series)



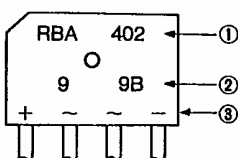
- ①Peak Reverse Voltage Designation
1, 2, 4, 6, C
Production Period
- ②Year (Last Number of AD Year)
- ③Month (1~9, 0, N, D)
- ④Divided in 3 ten day terms
A: 1st 10days, B: 2nd 10days
C: 3rd 10days
Color Designation: Silver

(RB60 Series)



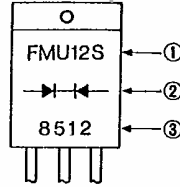
Dot Designation RB601 Violet
RB602 No Color
RB604 Blue
RB606 White

5 RBV/RBA



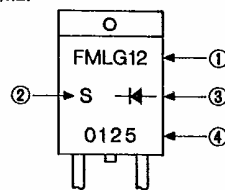
- ①Type Designation
- ②Lot Number
1st : Year (Last Number of AD Year)
2nd: Month (1~9, 0, N, D)
3rd : Divided 1~3 ten day Terms
A: 1st 10 days B: 2nd 10 days
C: 3rd 10 days
- ③In-Put Designation

6 T0220 Type (FM or CT Type)



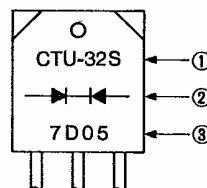
- ①Type Designation
Show FMU-12S as FMU12S.
- ②Polarity: Rectifier Symbols
- ③Lot Number (Laser Marking)
1st : Year (Last Number of AD Year)
2nd : Month (0~9, 0, N, D)
3rd, 4th: Day

7 T0220 Type (FM or CT Type, single chip)



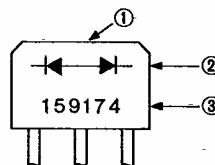
- ①Type Designation: Omit Last Letter
Show FML-G12S as FMLG12.
- ②Last Letter of Type Designation
- ③Polarity: Rectifier Symbols
- ④Lot Number (Laser Marking)
1st : Year (Last Number of AD Year)
2nd : Month (0~9, 0, N, D)
3rd, 4th: Day

8 T03P Type (FM or CT Type)



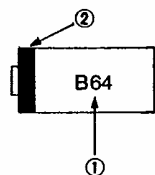
- ①Type shown in full designation
However, CTB-34/34S/34M are marked as CTB-34, CTU-G3DR is marked as CTUG3DR.
- ②Polarity: Rectifier Symbols
- ③Lot Number:
1) M, U, G and L Types
First Number : Last Digit of AD Year
Second Number : Month
Third and Fourth Numbers: Day
Fifth Number : None
2) For types CTB-34/34S/34M, the fifth letter shows type designation. If no fifth number, the type is CTB-33 or CTB-34.
3) Marking Color: Silver

9 MI-10/15 Type



- ①MI-10/15 is die-stamped on the top of the case.
- ②Rectifier Symbols
- ③Lot Number:
First Number : Peak Reverse Voltage:
(Letter) 0=50V, 1=100V, 2=200V,
4=400V, 6=600V, C=1000V
Second Number : Last Digit of AD Year
Thrd Number : Month
Fourth and Fifth Numbers: Day
Sixth Number : Production number and
U: Voltage Doubler Type

10 SFP Type



- ①Type Designation:
SFPB-64 is abbreviated at B64.
- ②Cathode Band