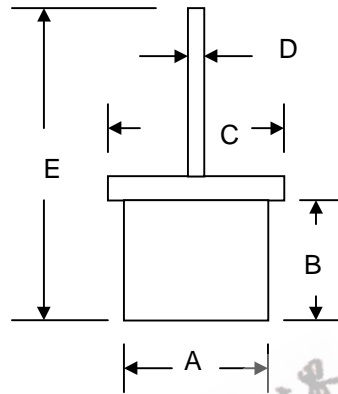


Features

- Glass Passivated Die Construction
- Low Leakage
- Low Cost
- High Surge Current Capability
- Typical IR less than 10 μ A

Mechanical Data

- Case: All Copper Case and Components Hermetically Sealed
- Terminals: Contact Areas Readily Solderable
- Polarity: Cathode to Case (Reverse Units Are Available Upon Request and Are Designated By An "R" Suffix, i.e. TC2502R or TC2504R)
- Polarity: Red Color Equals Standard, Black Color Equals Reverse Polarity
- Mounting Position: Any



Tin Can		
Dim	Min	Max
A	8.70	8.75
B	6.35	6.40
C	10.45	10.50
D	1.45	1.49
E	27.60	—
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Characteristic	Symbol	TC2500	TC2501	TC2502	TC2503	TC2504	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	50	100	200	300	400	V
Working Peak Reverse Voltage	V _{RWM}						
DC Blocking Voltage	V _R						
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	210	280	V
Average Rectified Output Current @T _A = 150°C	I _O	25					A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	400					A
Forward Voltage @I _F = 50A	V _{FM}	1.0					V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	I _{RM}	10 500					μ A
Typical Junction Capacitance (Note 1)	C _j	300					pF
Typical Thermal Resistance Junction to Case (Note 2)	R _{θJC}	1.0					K/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +175					°C

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance: Junction to case, single side cooled.

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
TC2500	Press Fit	100 Units/Tray
TC2501	Press Fit	100 Units/Tray
TC2502	Press Fit	100 Units/Tray
TC2503	Press Fit	100 Units/Tray
TC2504	Press Fit	100 Units/Tray

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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