Anode +



25A GLASS PASSIVATED 5/16" TIN CAN PRESS-FIT DIODE

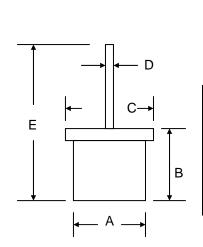


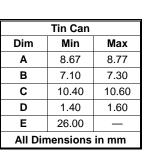
Features

- Glass Passivated Die Construction
- Low Leakage
- Low Cost
- High Surge Current Capability
- Typical IR less than 5.0µA

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 A "R" Suffix, i.e. TC2502R or TC2504R)
- Polarity: Red Color Equals Standard, Black Color Equals Reverse Polarity
- Mounting Position: Any
- Lead Free: For RoHS / Lead Free Version,
 Add "-LF" Suffix to Part Number, See Page 2





Maximum Ratings and Electrical Characteristics @TA=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	TC2505	TC2506	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	300	400	500	600	V
RMS Reverse Voltage	VR(RMS)	35	70	140	210	280	350	420	V
Average Rectified Output Current @T _C = 150°C	lo				25				Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM				300				А
Forward Voltage @I _F = 25A	VFM				1.0				V
$ \begin{array}{ll} \text{Peak Reverse Current} & @T_{\text{A}} = 25^{\circ}\text{C} \\ \text{At Rated DC Blocking Voltage} & @T_{\text{A}} = 100^{\circ}\text{C} \\ \end{array} $	IRM	5.0 500			μΑ				
Typical Junction Capacitance (Note 1)	Сл				300				pF
Typical Thermal Resistance (Note 2)	R JC	1.2				°C/W			
Operating and Storage Temperature Range	TJ, TSTG	-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

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Product No.	Package Type	Shipping Quantity		
TC2500	5/16" Tin Can Press-Fit	500 Units/Box		
TC2501	5/16" Tin Can Press-Fit	500 Units/Box		
TC2502	5/16" Tin Can Press-Fit	500 Units/Box		
TC2503	5/16" Tin Can Press-Fit	500 Units/Box		
TC2504	5/16" Tin Can Press-Fit	500 Units/Box		
TC2505	5/16" Tin Can Press-Fit	500 Units/Box		
TC2506	5/16" Tin Can Press-Fit	500 Units/Box		

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

 To order Lead Free version (with Lead Free finish), add "-LF" suffix to part 2. number above. For example, TC2500-LF.

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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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