

TC2500 - TC2504

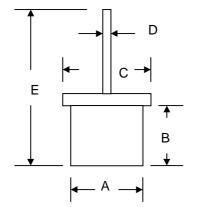
25A 5/16" TIN CAN TYPE PRESS-FIT DIODE

Features

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

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				
Α	8.70	8.75				
В	6.35	6.40				
С	10.45	10.50				
D	1.45	1.49				
Е	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 Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	300	400	٧
RMS Reverse Voltage	VR(RMS)	35	70	140	210	280	٧
Average Rectified Output Current @T _A = 150°C	lo	25			Α		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	400			А		
Forward Voltage @I _F = 50A	VFM	1.0			V		
	IRM	10 500			μΑ		
Typical Junction Capacitance (Note 1)	Cj	300			pF		
Typical Thermal Resistance Junction to Case (Note 2)	RθJC	1.0			K/W		
Operating and Storage Temperature Range	ТЈ, Тѕтс	-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.

1 of 2



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.