SEMICONDUCTOR

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

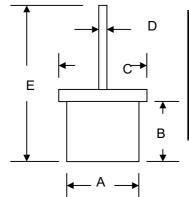
Data Sheet 2523 Rev.—

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	0.343(8.70)	0.344(8.75)							
В	0.25(6.35)	0.252(6.40)							
С	0.411(10.45)	0.413(10.5)							
D	0.057(1.45)	0.059(1.49)							
Е	1.087(27.60)	_							
All Dimensions in inch(mm)									

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	TC2504	TC2506	TC2508	TC2510	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current @T _A = 150°C	lo	25							А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSМ	400							А
Forward Voltage @I _F = 50A	VFM	1.0							V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	lгм	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	ТJ, Tsтg	-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.

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