

TC2500G - TC2506G

Anode +

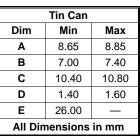
25A GLASS PASSIVATED 5/16" TIN CAN PRESS-FIT DIODE



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
- Available Upon Request and Are Designated By A "R" Suffix, i.e. TC2502GR or TC2504GR)
 Polarity: Red Color Equals Standard,
- 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	TC 2500G	TC 2501G	TC 2502G	TC 2503G	TC 2504G	TC 2505G	TC 2506G	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 $@T_c = 150^{\circ}C$	lo	25					А		
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	300				A			
Forward Voltage $@I_F = 25A$	Vfm	1.0				V			
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	Irm	5.0 500				μA			
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.



Product No.	Package Type	Shipping Quantity			
TC2500G	5/16" Tin Can Press-Fit	500 Units/Box			
TC2501G	5/16" Tin Can Press-Fit	500 Units/Box			
TC2502G	5/16" Tin Can Press-Fit	500 Units/Box			
TC2503G	5/16" Tin Can Press-Fit	500 Units/Box			
TC2504G	5/16" Tin Can Press-Fit	500 Units/Box			
TC2505G	5/16" Tin Can Press-Fit	500 Units/Box			
TC2506G	5/16" Tin Can Press-Fit	500 Units/Box			

ORDERING INFORMATION

1. 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 number above. For example, TC2500G-LF.

WON-TOP ELECTRONICS and *w* are registered trademarks of Won-Top Electronics Co., Ltd (WTE). WTE has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. Furthermore, this information does not give the purchaser of semiconductor devices any license under patent rights to manufacturer. WTE reserves the right to change any or all information herein without further notice.

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.

Won-Top Electronics Co., Ltd.

No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung 806, Taiwan Phone: 886-7-822-5408 or 886-7-822-5410 Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

We power your everyday.