

TC3520 & TC3524

Anode +

35A GLASS PASSIVATED AVALANCHE 5/16" TIN CAN PRESS-FIT DIODE

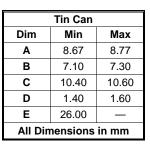


Features

- Glass Passivated Die Construction
- Low Leakage
- Low Cost
- High Surge Current Capability
- Typical IR less than 200nA

Mechanical Data

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- 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. TC3520R or TC3524R)
 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	TC3520	TC3524	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	16	20	V
Average Rectified Output Current	@T _c = 150°C	lo	35 A		А
Breakdown Voltage Min. Breakdown Voltage Max.	@I _R = 100mA @I _R = 100mA	Vbr	20 26	24 32	V
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)		IFSM	400		A
Forward Voltage	@I _F = 35A	Vfm	1	.0	V
Peak Reverse Current At Rated DC Blocking Voltage @T _A = 25°C		IRM	200		nA
Typical Junction Capacitance (Note 1)		CJ	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

Product No.	Package Type	Shipping Quantity	
TC3520	5/16" Tin Can Press-Fit	500 Units/Box	
TC3524	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 1.

2. number above. For example, TC3520-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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