




1.0 Amp. Glass Passivated Junction Rectifier

<p>DO-41 Mini</p> 	<p>Voltage 200V to 1000 V</p>	<p>Current 1.0 A at 50° C</p>	
	<p>FEATURES</p> <ul style="list-style-type: none"> Glass passivated chip junction High reliability Cavity-free glass-passivated junction Low forward voltage drop Low leakage current, typical I_R less than 0.1 μA High forward surge capability Solder dip 260°C, 10s Component in accordance to RoHS 2011/65/EU and WEEE 2002/96/EC 		  RoHS COMPLIANT
	<p>MECHANICAL DATA</p> <ul style="list-style-type: none"> Case: DO-41 Mini. Epoxy meets UL 94V-0 flammability rating. Polarity: Color band denotes cathode end Terminals: Matte tin plated leads, solderable per MIL-STD-750 Method 2026, J-STD-002 and JESD22-B102. Consumer grade, meets JESD 201 class 1A whisker test. 		
	<p>TYPICAL APPLICATIONS</p> <p>Used in general purpose rectification of power supplies, inverters, converters and freewheeling diodes application</p>		

Maximum Ratings and Electrical Characteristics at 25°C

		1T3G	1T4G	1T5G	1T6G	1T7G
Marking Code		ZA	ZB	ZC	ZD	ZE
V_{RRM}	Maximum Recurrent Peak Reverse Voltage (V)	200	400	600	800	1000
V_{RMS}	Maximum RMS Voltage (V)	140	280	420	560	700
V_{DC}	Maximum DC Blocking Voltage (V)	200	400	600	800	1000
$I_{F(AV)}$	Maximum Average Forward Rectified Current 9.5mm Lead Length @ $T_a = 50^\circ\text{C}$	1.0 A				
I_{FSM}	Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	30 A				
C_j	Typical Junction Capacitance at 1 MHz and reverse voltage of $4V_{DC}$	10 pF				
T_j	Operating Temperature Range	-65 to +150 °C				
T_{stg}	Storage Temperature Range	-65 to +150 °C				

Electrical Characteristics at $T_{amb} = 25^\circ\text{C}$

V_F	Maximum Instantaneous Forward Voltage @ = 1.0 A	1.0 V
I_R	Maximum DC Reverse Current @ $T_a = 25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_a = 125^\circ\text{C}$	5 μ A 100 μ A
$R_{th(j-a)}$	Typical Thermal Resistance (See note)	100 °C/W

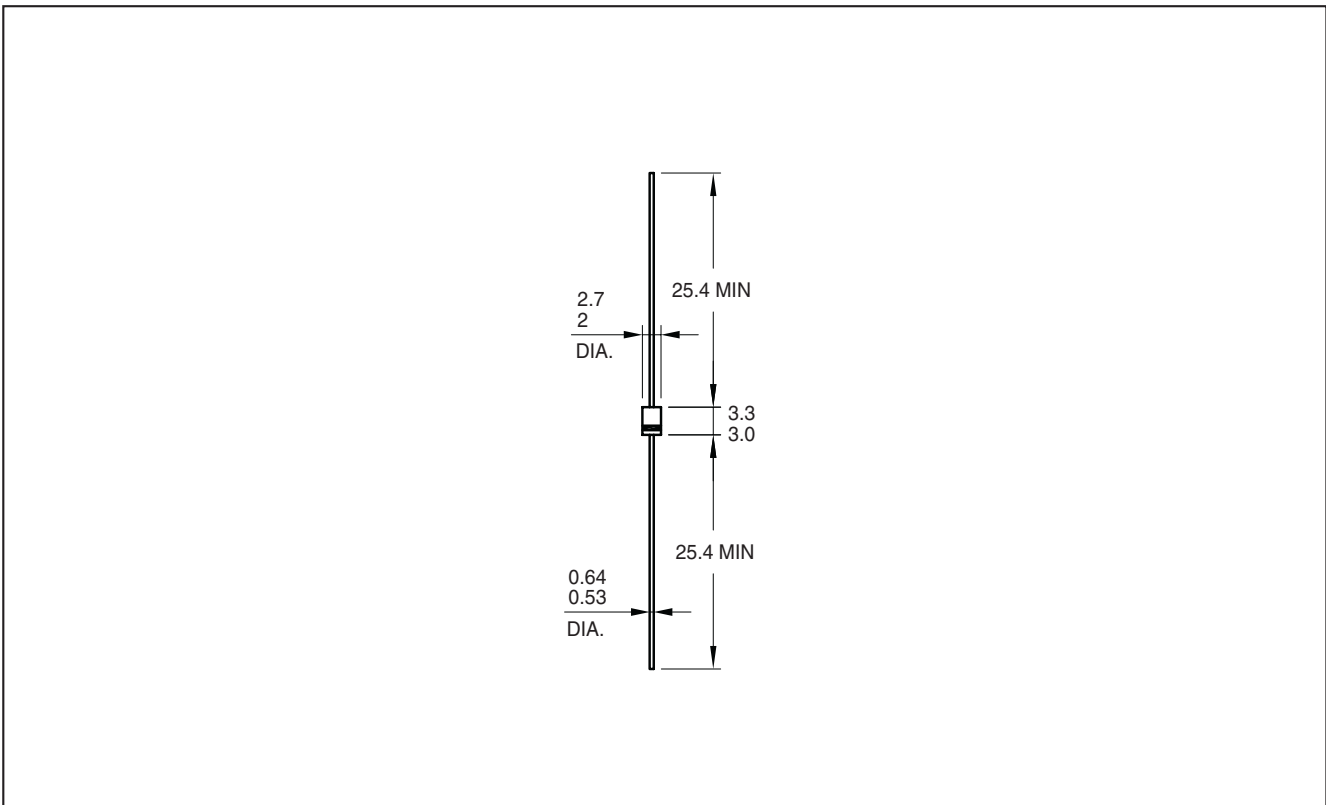
NOTE: Mount on Cu-Pad size 5mm x 5mm on PCB.

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Ordering information

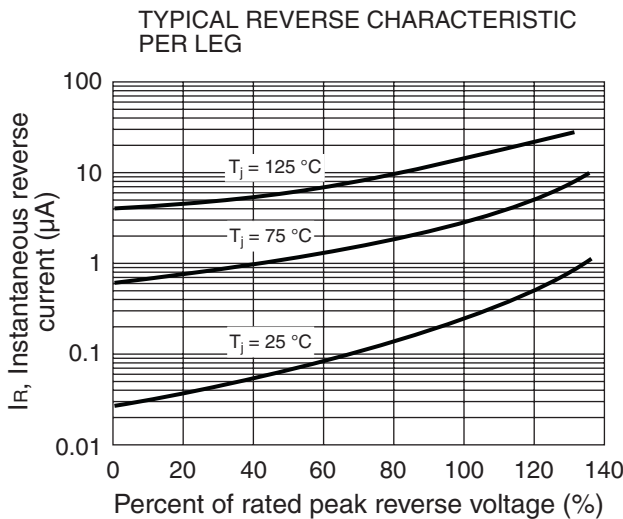
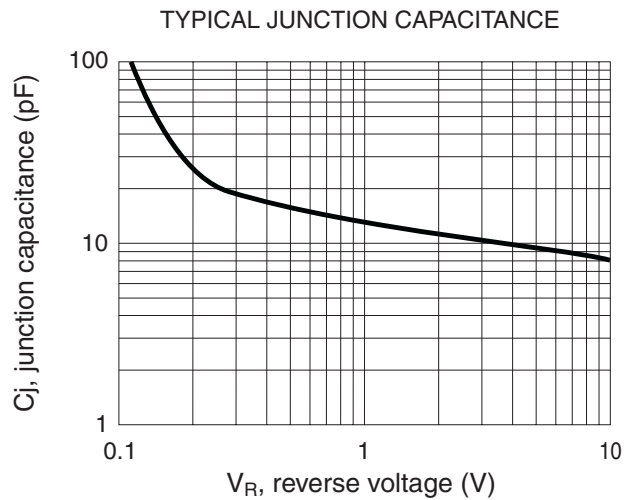
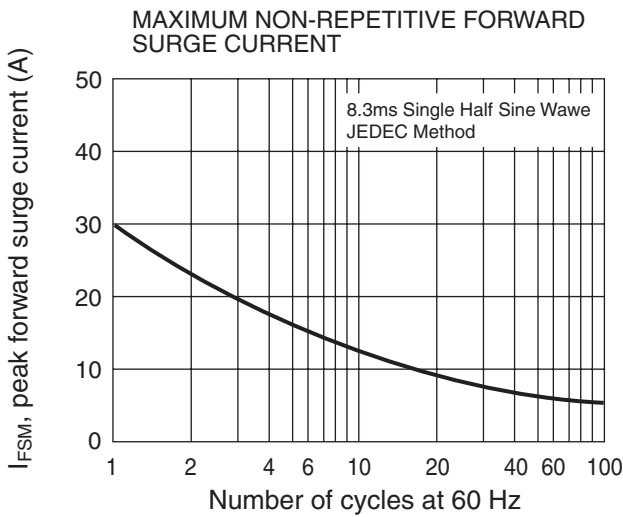
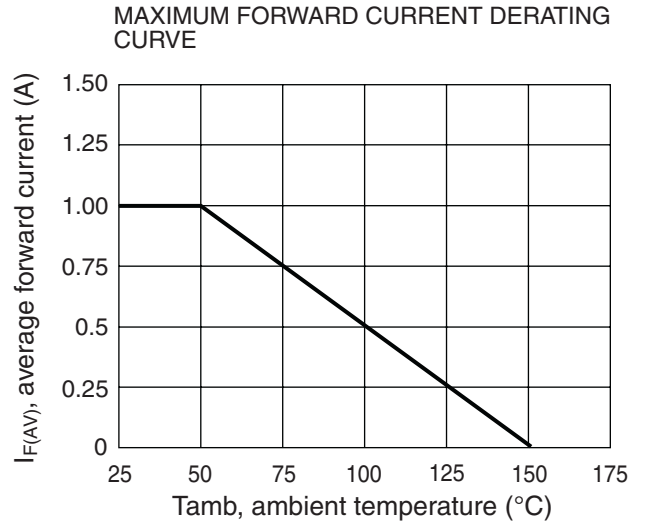
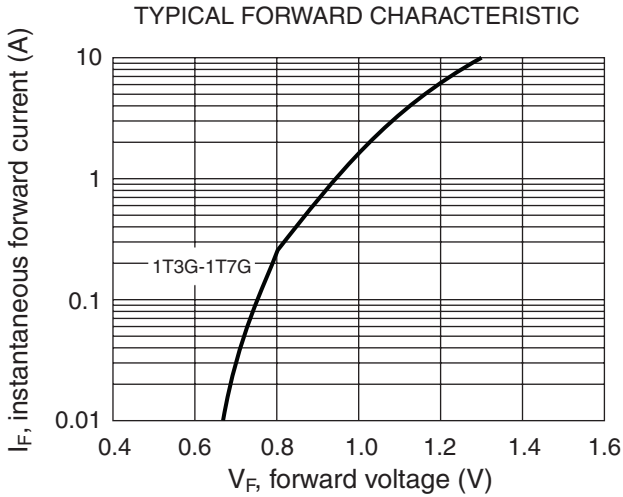
PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
1T5G AMP	AMP	AMMO BOX	3,000	0.20
1T5G TR	TR	13" diameter tape and reel	5,000	0.20

Package Outline Dimensions: (mm) DO-41 Mini



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Ratings and Characteristics (Ta 25 °C unless otherwise noted)



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Disclaimer

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