



1.0A GLASS PASSIVATED RECTIFIER

Features and Benefits

- Glass Passivated Die Construction
- High Current Capability and Low Forward Voltage Drop
- Surge Overload Rating to 30A Peak
- Lead Free Finish, RoHS Compliant (Note 1)

Mechanical Data

- Case: T1
- Case Material: Molded Plastic. UL Flammability
- Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020
- Polarity: Cathode Band
- Terminals: Finish Tin. Solderable per MIL-STD-202, Method 208 (3)
- Marking: Type Number
- Weight: 0.13 grams (approximate)

Ordering Information (Note 2)

Device	Packaging Shipping
D1G-T	T-1 5K/Tape & Reel, 13-inch
D2G-T	T-1 5K/Tape & Reel, 13-inch
D3G-T	T-1 5K/Tape & Reel, 13-inch
D4G-T	T-1 5K/Tape & Reel, 13-inch
D5G-T	T-1 5K/Tape & Reel, 13-inch
D6G-T	T-1 5K/Tape & Reel, 13-inch
D7G-T	T-1 5K/Tape & Reel, 13-inch

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	D1G	D2G	D3G	D4G	D5G	D6G	D7G	Unit	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	V	
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	560	700	V	
Average Rectified Output Current (Note 3) @ T _A = 75°C		1.0							А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load		30							А	
Forward Voltage @ I _F = 1.0A	VFM				1.0				V	
Peak Reverse Current@ $T_A = 25^{\circ}C$ at Rated DC Blocking Voltage@ $T_A = 100^{\circ}C$	I _{RM}				5.0 50				μA	
Typical Reverse Recovery Time (Note 4)		2.0							μS	
Typical Total Capacitance (Note 5)		8.0							pF	
Typical Thermal Resistance Junction to Ambient		100							°C/W	
Operating and Storage Temperature Range		-65 to +150							°C	

Notes: 1. EU Directive 2002/95/EC (RoHS). All applicable RoHS exemptions applied, see EU Directive 2002/95/EC Annex Notes

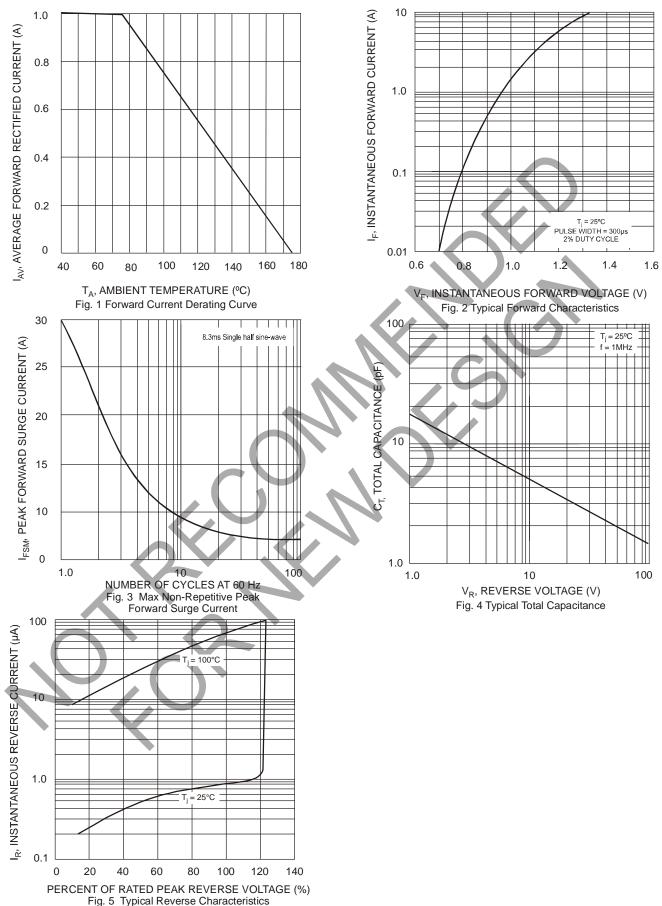
2. For packaging details, visit our website at http://www.diodes.com.

3. Valid provided that leads are maintained at ambient temperature at a distance of 9.5mm from the case.

4. Measured with $I_F = 0.5A$, $I_R = 1A$, $I_{rr} = 0.25A$.

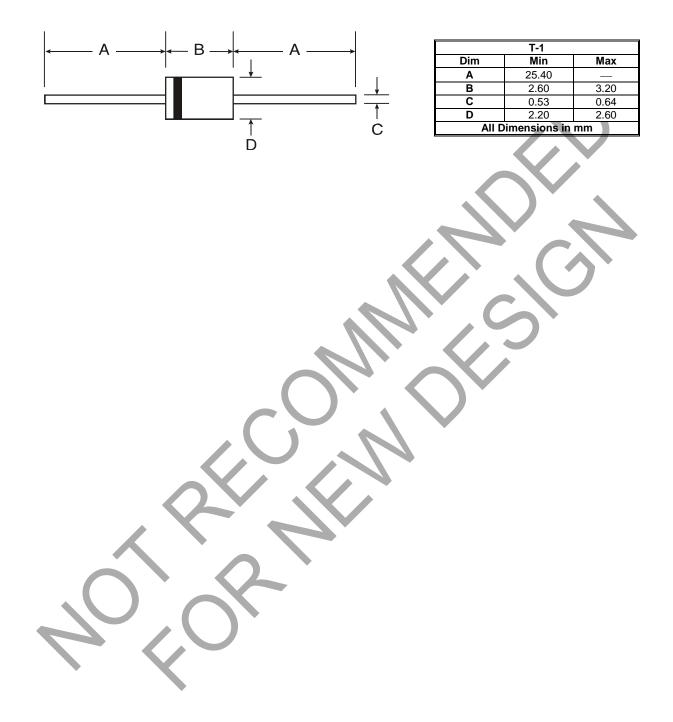
5. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.







Package Outline Dimensions





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