

NOT RECOMMENDED FOR NEW DESIGN - CONTACT US

D1G - D7G

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 (2)
- 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

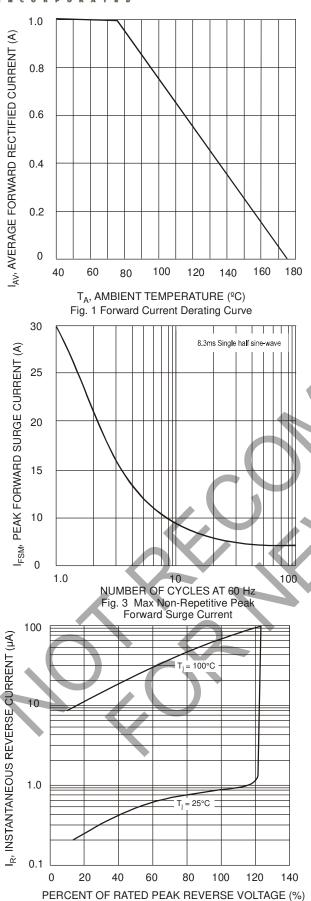
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

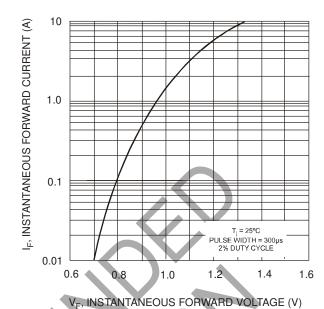
Characteristic	Symbol	D1G	D2G	D3G	D4G	D5G	D6G	D7G	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	٧
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 3) \mathbb{Q} $T_A = 75^{\circ}$ C	Io				1.0				Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load	I _{FSM}				30				Α
Forward Voltage @ I _F = 1.0A	V_{FM}				1.0				V
Peak Reverse Current @ T _A = 25°C at Rated DC Blocking Voltage @ T _A = 100°C	I _{RM}				5.0 50				μА
Typical Reverse Recovery Time (Note 4)	t _{rr}				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.







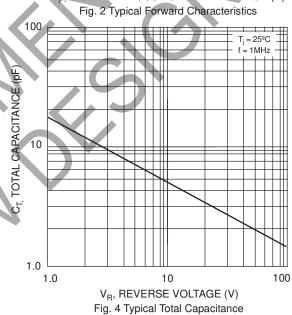
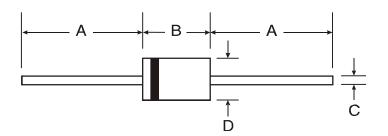


Fig. 5 Typical Reverse Characteristics

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Package Outline Dimensions



T-1					
Dim	Min	Max			
Α	25.40				
В	2.60	3.20			
С	0.53	0.64			
D	2.20	2.60			
All Dimensions in mm					



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