Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

Diodes Incorporated D1G-T

For any questions, you can email us directly: sales@integrated-circuit.com

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Datasheet of D1G-T - DIODE GEN PURP 50V 1A T1

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



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 @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.

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	Io				1.0				Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on I	ated load	I _{FSM}				30				Α
Forward Voltage	@ I _F = 1.0A	V_{FM}				1.0				V
Peak Reverse Current at Rated DC Blocking Voltage	@ T _A = 25°C @ 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)		Ст				8.0				pF
Typical Thermal Resistance Junction to Ambier	it	$R_{\theta JA}$				100				°C/W
Operating and Storage Temperature Range		T _{J.} T _{STG}			-6	65 to +15	50			°C

Notes:

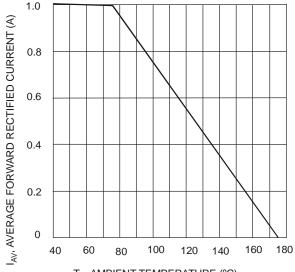
- 1. EU Directive 2002/95/EC (RoHS). All applicable RoHS exemptions applied, see EU Directive 2002/95/EC Annex Notes
- 2. For packaging details, visit our website at http://www.diodes.com.
- 3. Valid provided that leads are maintained at ambient temperature at a distance of 9.5mm from the case.
- 4. Measured with $I_F = 0.5A$, $I_R = 1A$, $I_{rr} = 0.25A$.
- Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

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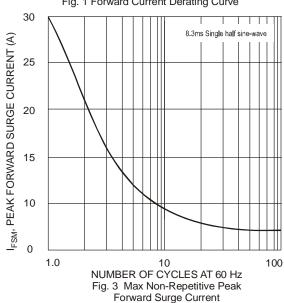
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IR, INSTANTANEOUS REVERSE CURRENT (µA) 10 1.0 = 25°C 0.1

60

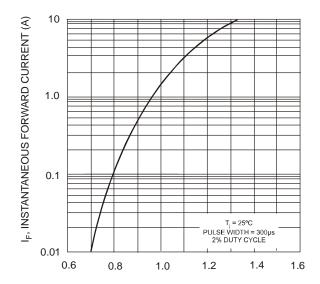
PERCENT OF RATED PEAK REVERSE VOLTAGE (%) Fig. 5 Typical Reverse Characteristics

80

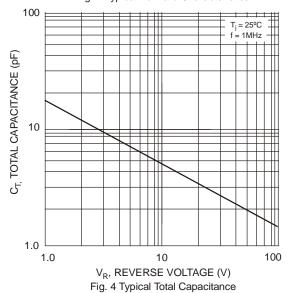
100

120

100°C



V_F, INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 2 Typical Forward Characteristics



20

40

100

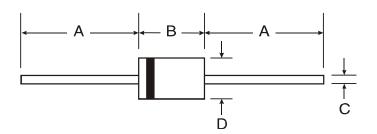
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Package Outline Dimensions



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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