

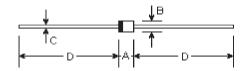
1G1 THRU 1G7

MINIATURE GLASS PASSIVATED JUNCTION RECTIFIER Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Ampere

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0 utilizing Flame retardant epoxy molding compound
- Glass passivated junction version of 1G1 thru 1G7 in R-1 package
- 1.0 ampere operation at T_A=75℃ with no thermal runaway





Mechanical Data

• Case: Molded plastic, R-1

• Terminals: Axial leads, solderable per MIL-STD-202, method 208

• Polarity: Color band denotes cathode

Mounting Position: Any

Weight: 0.007 ounce, 0.205 gram

DIMENSIONS										
DIM	inches		m	Note						
	Min.	Max.	Min.	Max.	Note					
Α	0.114	0.138	2.9	3.5						
В	0.095	0.099	2.42	2.51	ф					
С	0.020	0.024	0.5	0.6	ф					
D	1.000	-	25.40	-						

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

	Symbols	1G1	1G2	1G3	1G4	1G5	1G6	1G7	Units
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at T_A=75 $^{\circ}\mathrm{C}$	I _(AV)	1.0							Amp
Peak forward surge current, I _{FM} (surge): 8.3mS single half sine-wave superimposed on rated load (MIL-STD-750D 4066 method)	I _{FSM}	30.0							Amps
Maximum forward voltage at 1.0A	V _F	1.1							Volts
Maximum DC reverse current at rated DC blocking voltage T _A =100°C	I _R	5.0 100.0							μА
Typical junction capacitance (Note 1)	C _J	15.0							ρF
Typical thermal resistance (Note 2)	R _{⊕JA}	50.0						°C/W	
Operating and storage temperature range	T _J , T _{STG}	-55 to +150						$^{\circ}$ C	

Notes:

- (1) Measured at 1.0MHz and applied reverse voltage of 4.0 VDC
- (2) Thermal resistance junction to ambient

RATINGS AND CHARACTERISTIC CURVES

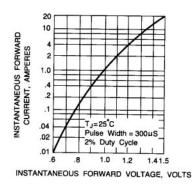


Fig. 1 - TYPICAL FORWARD CHARACTERISTICS

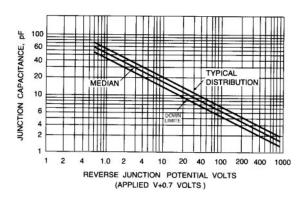


Fig. 2-JUNCTION CAPACITANCE

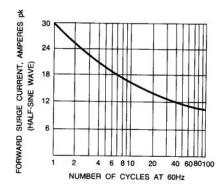


Fig. 3 - PEAK FORWARD SURGE CURRENT

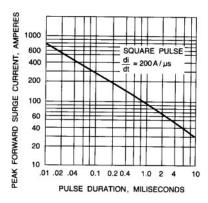


Fig. 4 - PEAK FORWARD SURGE CURRENT

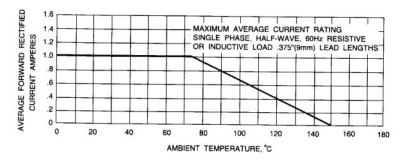


Fig. 5 - FORWARD DERATING CURVE