

1A1G THRU 1A7G

Reverse Voltage - 50 to 1000Volts **Glass Passivated Rectifiers Forward Current - 1.0 Amperes Features R-1** Low cost Low reverse leakage current RoHS COMPLIAN Low forward voltage drop .026 (0.65) High surge capacity .022 (0.55) 1.0 (25.4) Meet UL flammability classification 94V-0 Min. **Mechanical Data** .132 (3.35) • Case: JEDEC R-1 molded plastic .116 (2.95) • Polarity: Color band denotes cathode .104 (2.65) Mounting position: Any .089 (2.25) AEC-Q101 qualified 1.0 (25.4)

Min.

Package Outline Dimensions in Inches (Millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%. . .

• For use in low voltage, high frequency inverters,

Applications 应用

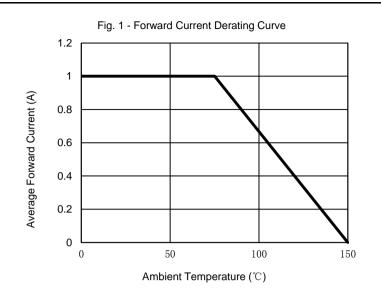
polarity protection applications

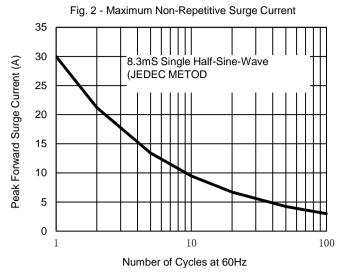
Characteristics	Symbol	1A1G	1A2G	1A3G	1A4G	1A5G	1A6G	1A7G	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @Ta=75 ℃	I(AV)	1.0							Α
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	lғsм	30							А
I ² t Rating for Fusing (t<8.3mS)	l ² t	3.7							A ² s
Peak Forward Voltage at 1.0A DC (Note1)	VF	1.1							V
Maximum DC Reverse Current @TJ=25°C at Rated DC Blocking Voltage @TJ=125°C	lr	5.0 50							uA
Typical Junction Capacitance (Note 2)	CJ	10							pF
Typical Thermal Resistance Junction to Ambient	Rеја	26							°C/W
Operating Junction Temperature Range	TJ	-55 to+150							$^{\circ}$
Storage Temperature Range	Тѕтс	-55 to+150							$^{\circ}$

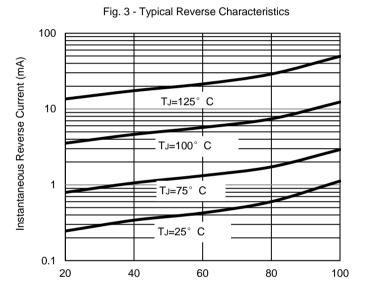
Notes: 1. 300uS pulse width, 2%duty cycle.

- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.
- 3. The typical data above is for reference only .









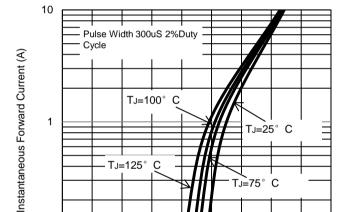


Fig. 4 - Typical Forward Characteristics

Percent of Rated Peak Reverse Voltage (%)

Instantaneous Forward Voltage (V)

1.2

1.8

1.6

8.0

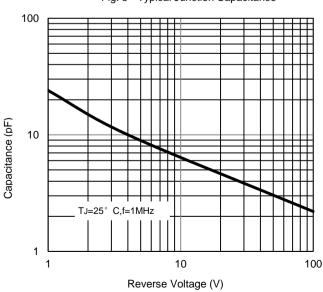


Fig. 5 - Typical Junction Capacitance

0.1

0.2

0.4

0.6

The curve above is for reference only.

1A*G-A-99-A001 Rev. 9, 22-Apr-2019



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