

1A1G THRU 1A7G

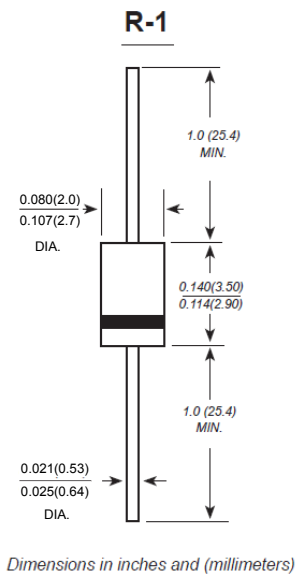
Glass Passivated Rectifiers Reverse Voltage – 50 to 1000 V Forward Current – 1 A

Features

- High reliability
- High current capability
- High surge current capability
- Low forward voltage drop

Mechanical Data

- **Case:** Molded plastic black body
- **Lead:** Axial leads, solderable per MIL-STD 202E method 208 guaranteed.
- **Mounting Position:** Any



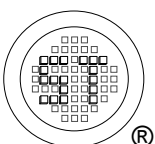
Absolute Maximum Ratings and Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Symbols	1A1G	1A2G	1A3G	1A4G	1A5G	1A6G	1A7G	Units
	Marking	1A1G	1A2G	1A3G	1A4G	1A5G	1A6G	1A7G	-
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current at $T_a = 25^\circ\text{C}$	$I_{F(AV)}$	1							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	25							A
Maximum instantaneous forward voltage at 1A DC	V_F	1.1							V
Maximum DC reverse current $T_a = 25^\circ\text{C}$ at rated DC blocking voltage $T_a = 125^\circ\text{C}$	I_R	5 100							μA
Typical junction capacitance ¹⁾	C_J	15							pF
Typical thermal resistance ²⁾	$R_{\theta JA}$	50							$^\circ\text{C/W}$
Operating and storage temperature range	T_J, T_{Stg}	-50 to +150							$^\circ\text{C}$

¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V D.C.

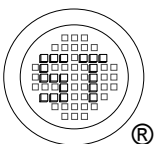
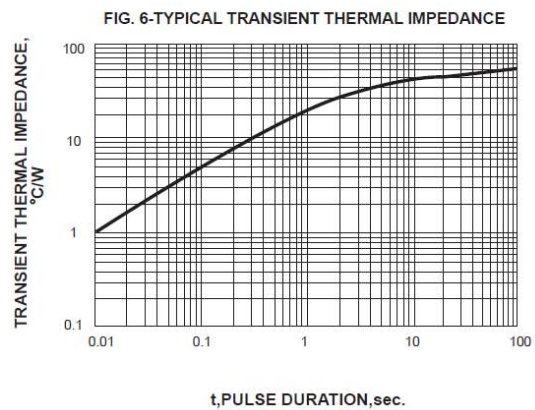
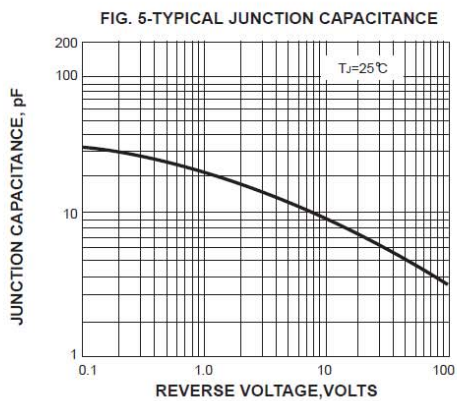
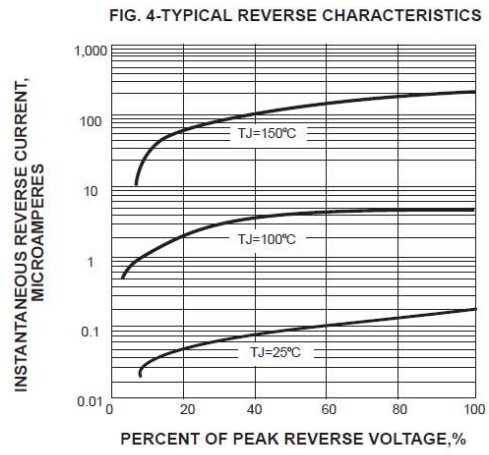
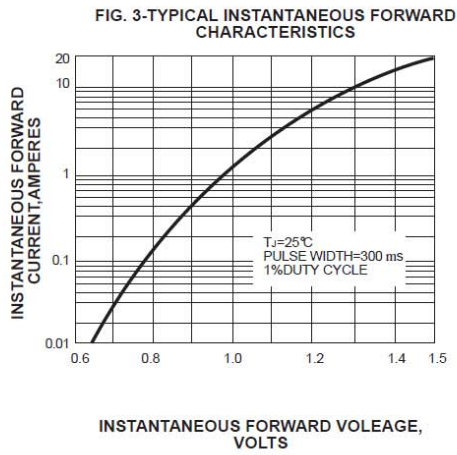
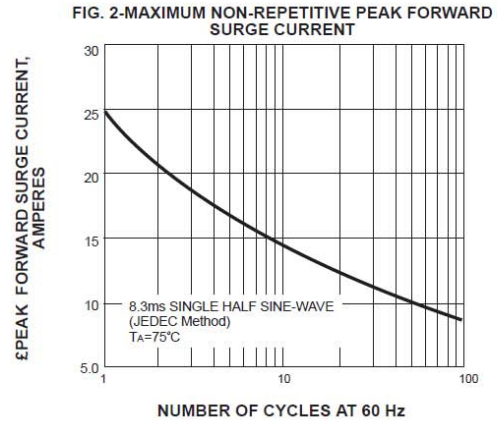
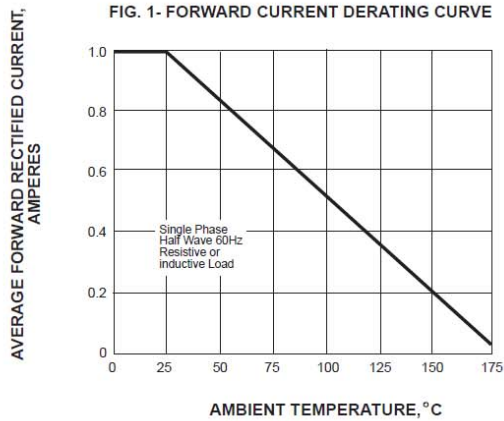
²⁾ Thermal resistance from junction to ambient at 0.375" (9.5 mm) lead length, P.C.B. mounted



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