

GLASS PASSIVATED JUNCTION FAST SWITCHING RECTIFIER
VOLTAGE - 50 to 800 Volts CURRENT - 1.0 Ampere

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O Utilizing Flame Retardant Epoxy Molding Compound
- Glass passivated junction
- 1 ampere operation at $T_A=55^\circ\text{C}$ with no thermal runaway
- Exceeds environmental standards of MIL-S-19500/228
- Fast switching for high efficiency

Weight: 0.008 ounce, 0.22 gram



	PG100RS	PG101RS	PG102RS	PG104RS	PG106RS	PG108RS	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	V
Maximum RMS Voltage	35	70	140	280	420	560	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	V
Maximum Average Forward Rectified Current .375"(9.5mm) lead length at $T_A=55^{\circ}\text{C}$	1.0						A
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load(JEDEC method)	30						A
Maximum Forward Voltage at 1.0A	1.3						V
Maximum Full Load Reverse Current Full Cycle Average, .375",9.5mm Lead Length at $T_A=55^{\circ}\text{C}$	5.0						$\mu\text{g A}$
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_A=100^{\circ}\text{C}$	150						$\mu\text{g A}$
Maximum Reverse Recovery Time(Note 1)	150	150	150	150	250	500	ns
Typical Junction capacitance (Note 2)	15						pF
Typical Thermal Resistance (Note 3) $R_{\theta\text{JA}}$	67						$^{\circ}\text{C/W}$
Operating and Storage Temperature Range T_J	-55 to +150						$^{\circ}\text{C}$

1. Measured with $I_F=0.5A$, $I_R=1A$, $I_{rr}=0.25A$
2. Measured at 1 MHz and applied reverse voltage of 4.0 VDC
3. Thermal resistance from junction to ambient at 0.375"(9.5mm) lead length P.C.B. mounted

RATING AND CHARACTERISTIC CURVES

PG100RS THRU PG108RS

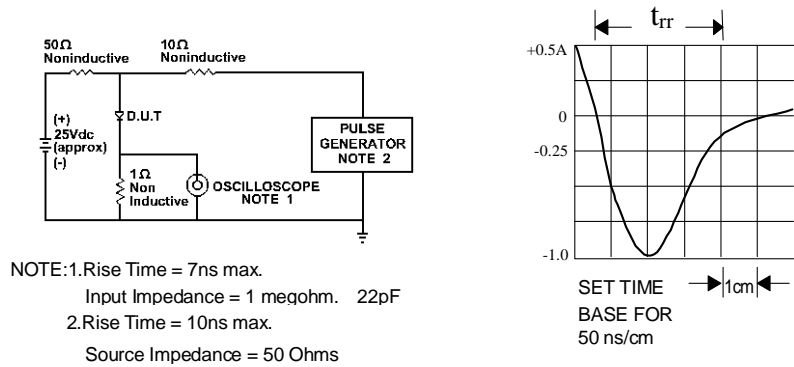
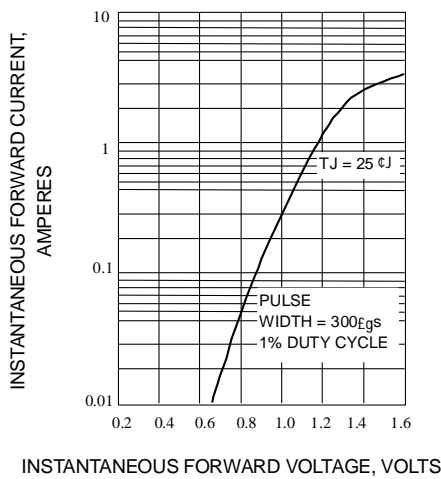


Fig. 1-REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

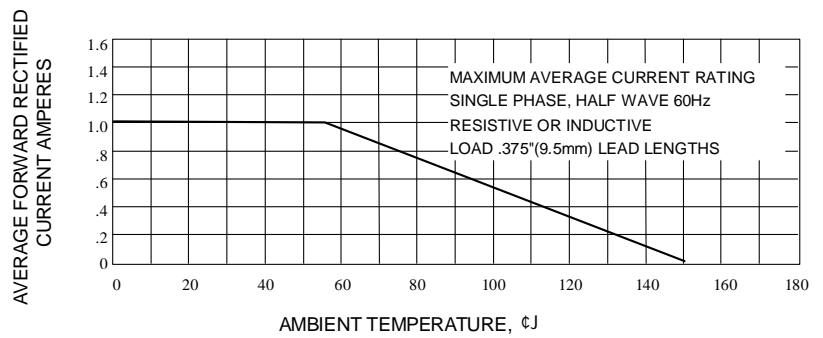


Fig. 3-FORWARD CURRENT DERATING CURVE

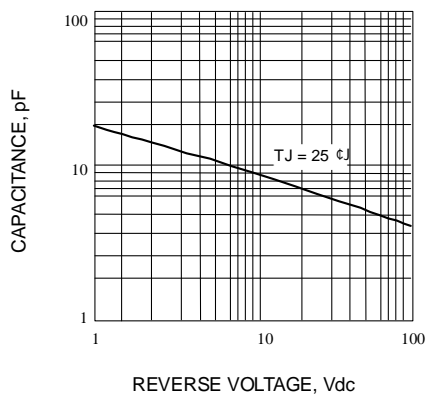


Fig. 4-TYPICAL JUNCTION CAPACITANCE

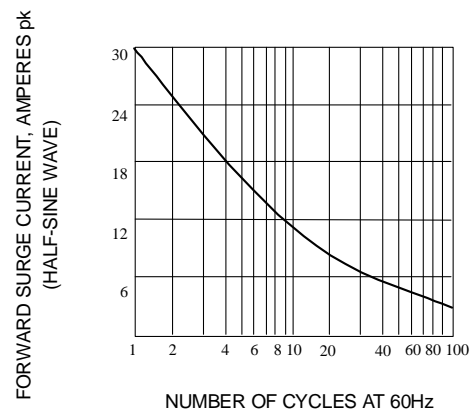


Fig. 5-PEAK FORWARD SURGE CURRENT

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Datasheets for electronics components.