PG100RS THRU PG108RS

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

FEATURES

- 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 ¢J with no thermal runaway
- Exceeds environmental standards of MIL-S-19500/228
- Fast switching for high efficiency

MECHANICAL DATA

Case: Molded plastic, A-405

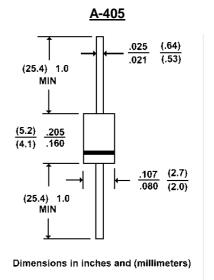
Terminals: axial leads, solderable per MIL-STD-202,

Method 208

Polarity: Color band denotes cathode

Mounting Position: Any

Weight: 0.008 ounce, 0.22 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ¢J ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

	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	1.0						Α
Current .375"(9.5mm) lead length at T _A =55 ¢J							
Peak Forward Surge Current 8.3ms single half sine	30						Α
wave superimposed on rated load(JECEC method)							
Maximum Forward Voltage at 1.0A	1.3						V
Maximum Full Load Reverse Current Full Cycle	5.0						£g A
Average, .375",9.5mm Lead Length at T _A =55 ¢J							
Maximum DC Reverse Current	150						£g A
at Rated DC Blocking Voltage T _A =100 ¢J							
Maximum Reverse Recovery Time(Note 1)	150	150	150	150	250	500	ns
Typical Junction capacitance (Note 2)	15						₽F
Typical Thermal Resistance (Note 3) R £KJA	67						¢J/W
Operating and Storage Temperature Range T _J	-55 to +150						¢J

NOTES:

- 1. Measured with I_F =.5A, I_R =1A, I_{rr} =.25A
- 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

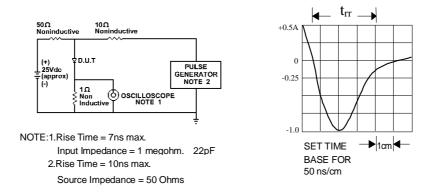


Fig. 1-REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

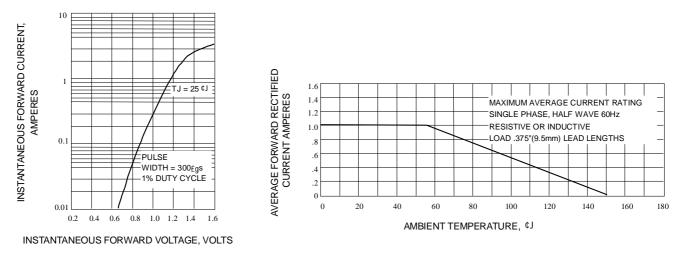


Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

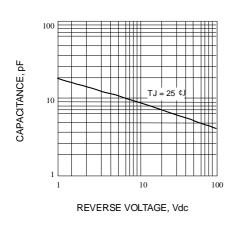


Fig. 4-TYPICAL JUNCTION CAPACITANCE

Fig. 3-FORWARD CURRENT DERATING CURVE

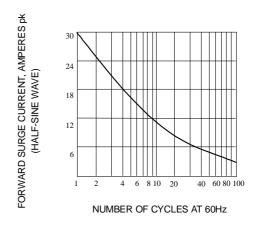


Fig. 5-PEAK FORWARD SURGE CURRENT

