PG600R THRU PG608R

GLASS PASSIVATED JUNCTION FAST SWITCHING RECTIFIER VOLTAGE - 50 to 800 Volts CURRENT - 6.0 Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O Utilizing Flame Retardant Epoxy Molding Compound
- Glass passivated junction in P600 package
- 6 ampere operation at T_A=60 **¢J** with no thermal runaway
- Exceeds environmental standards of MIL-S-19500/228
- Fast switching for high efficiency

MECHANICAL DATA

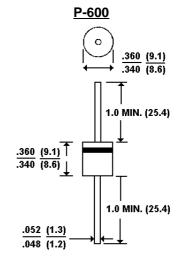
Case: Molded plastic, P600

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

Method 208

Mounting position: Any

Weight: 0.07 ounce, 2.1 grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 () ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

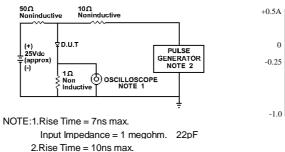
	PG600R	PG601R	PG602R	PG604R	PG606R	PG608R	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	V
Maximum RMS Voltage	35	70	140	280	420	560	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	V
Maximum Average Forward Rectified Current	6.0						Α
@T _A =60 ¢J							
Peak Forward Surge Current 8.3ms single half sine		250					
wave I _{FSM} superimposed on rated load(JECEC method)							
Maximum Forward Voltage at 6.0A DC	1.3						V
Maximum DC Reverse Current at Rated DC T _a =25 ¢J	5.0						£g A
Blocking Voltage @ T _a =100 ¢J	500						
Maximum Reverse Recovery Time(Note 1)	150	150	150	150	250	500	ns
Typical Junction capacitance (Note 2)	300						₽F
Typical Thermal Resistance at 0.375"(9.5mm)" lead	10.0						¢J ///
length R £K JA							
Operating and Storage Temperature Range T_{A} , T_{J}	-55 to +150						¢J

NOTES:

- 1. Reverse Recovery Test Conditions: I_F=.5A, I_R=1A, Irr=.25A
- 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts

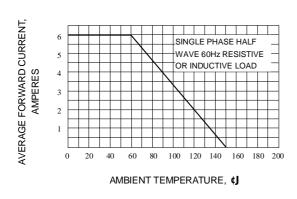


RATING AND CHARACTERISTIC CURVES PG600R THRU PG608R



Source Impedance = 50 Ohms

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



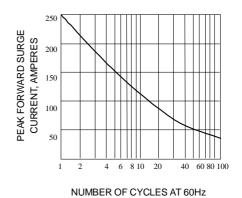


Fig. 2-FORWARD DERATING CURVE

Fig. 3-PEAK FORWARD SURGE CURRENT

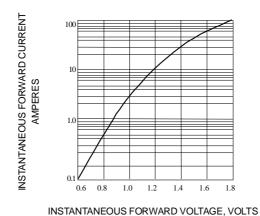


Fig. 4-TYPICAL FORWARD CHARACTERISTIC

