



DATA SHEET

PG600R~PG608R

GLASS PASSIVATED JUNCTION FAST SWITCHING RECTIFIERS

VOLTAGE 50 to 800 Volts **CURRENT** 6.0 Amperes

P-600

Unit: inch(mm)

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- Glass passivated junction in P600 package.
- Exceeds environmental standards of MIL-S-19500/228
- 6 ampere operation at $T_A=60^{\circ}\text{C}$ with no thermal runaway.
- Fast switching for high efficiency.
- Pb free product are available : 99% Sn can meet Rohs environment substance directive request

MECHANICAL DATA

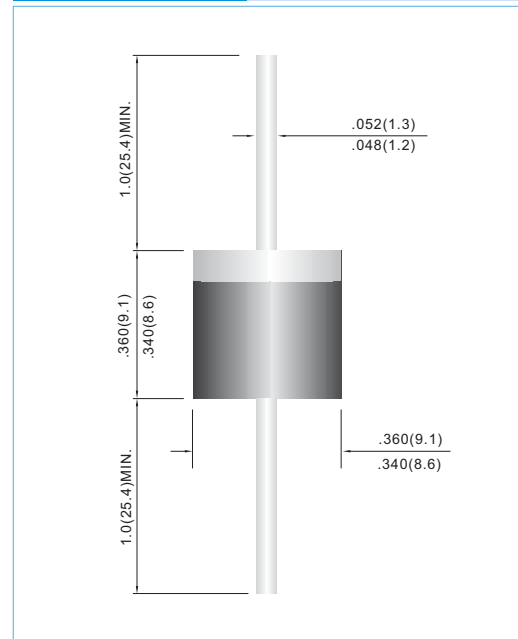
Case: Molded plastic, P600

Terminals: Axial leads, solderable to MIL-STD-202G, Method 208

Polarity: Color Band denotes cathode end

Mounting Position: Any

Weight: 0.07 ounce, 2.1 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Resistive or inductive load, 60Hz.

PARAMETER	SYMBOL	PG600R	PG601R	PG602R	PG604R	PG606R	PG608R	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	V
Maximum Average Forward Current .375" (9.5mm) lead length at $T_A=60^{\circ}\text{C}$	I_{AV}	6						A
Peak Forward Surge Current : IFM (surge): 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	250						A
Maximum Forward Voltage at 6.0A	V_F	1.3						V
Maximum Full Load Reverse Current Full Cycle Average at $T_A=25^{\circ}\text{C}$ Maximum DC Reverse Current at Rated DC Blocking Voltage $T_A=100^{\circ}\text{C}$	I_R	5 500						μA
Maximum Reverse Recovery Time (Note 1)	T_{rr}	150				250	500	ns
Typical Junction capacitance (Note 2)	C_J	300						pF
Typical Junction Resistance at 0.375" (9.5mm) lead length	$R_{\theta JA}$	10						$^{\circ}\text{C} / \text{W}$
Operating and Storage Temperature Range	T_J, T_{STG}	-50 TO +150						$^{\circ}\text{C}$

NOTES: 1. Reverse Recovery Test Conditions: $I_F=5\text{A}$, $I_R=1\text{A}$, $I_{rr}=25\text{A}$
2. Measured at 1 MHz and applied reverse voltage of 4.0 VDC

