PG600R THRU PG608R

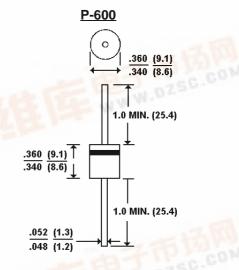
GLASS PASSIVATED JUNCTION FAST SWITCHING RECTIFIER VOLTAGE - 50 to 800 Volts CURRENT - 6.0 Amperes

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 $T_A=60 \text{ }^{\text{cJ}}$ with no thermal runaway
- Exceeds environmental standards of MIL-S-19500/228
- WWW.DZSC.COM 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 ¢J ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

· WP	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 $@T_A=60 $ ¢J	6.0						A
Peak Forward Surge Current 8.3ms single half sine wave I _{FSM} superimposed on rated load(JECEC method)	250						A
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 length R £KJA	10.0 B DZSG.G						¢J/W
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 WWW.D





RATING AND CHARACTERISTIC CURVES PG600R THRU PG608R

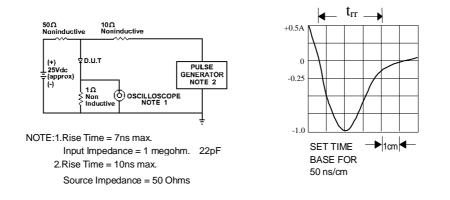
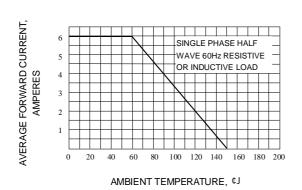


Fig. 1-REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





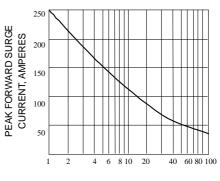
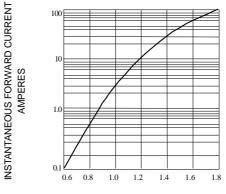




Fig. 3-PEAK FORWARD SURGE CURRENT



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

Fig. 4-TYPICAL FORWARD CHARACTERISTIC

