PG100R THRU PG108R

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

FEATURES

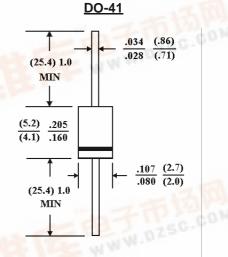
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O Utilizing Flame Retardant Epoxy Molding Compound
- Glass passivated junction

Weight: 0.012 ounce, 0.3 gram

- 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, DO-41 Terminals: axial leads, solderable per MIL-STD-202, Method 208 Polarity: Color band denotes cathode Mounting Position: Any



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%.

;;;	PG100R	PG101R	PG102R	PG104R	PG106R	PG108R	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 $T_A=55$ ¢J	1.0						A
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load(JECEC 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 ¢J	5.0						£g A
Maximum DC Reverse Current at Rated DC Blocking Voltage T _A =100 [¢] J	150						£g A
Maximum Reverse Recovery Time(Note 1)	150	150	150	150	250	500	ns
Typical Junction capacitance (Note 2) CJ	15						₽F
Typical Thermal Resistance (Note 3) R £KJA	67						¢J/W
Operating and Storage Temperature Range T	-55 to +150						¢J

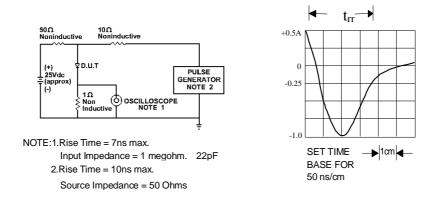
NOTES:

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

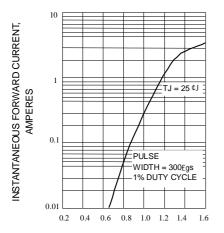




RATING AND CHARACTERISTIC CURVES PG100R THRU PG108R







INSTANTANEOUS FORWARD VOLTAGE, VOLTS

Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

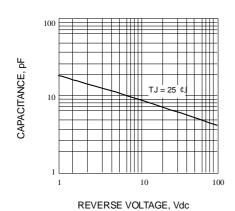
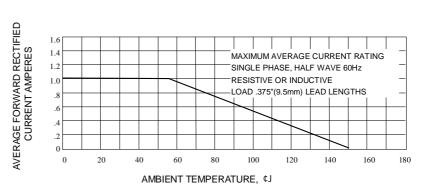


Fig. 4-TYPICAL JUNCTION CAPACITANCE





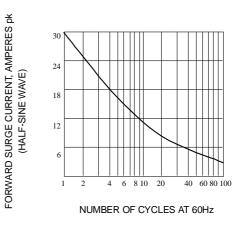


Fig. 5-PEAK FORWARD SURGE CURRENT

