PG300R THRU PG308R

GLASS PASSIVATED JUNCTION FAST SWITCHING RECTIFIER VOLTAGE - 50 to 800 Volts CURRENT - 3.0 Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O Utilizing Flame Retardant Epoxy Molding Compound
- Glass passivated junction in a DO-201AD package
- 3 ampere operation at T_A=55 **()** with no thermal runaway
- Exceeds environmental standards of MIL-S-19500/228
- Fast switching for high efficiency

MECHANICAL DATA

Case: Molded plastic, DO-201AD

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

Method 208

Mounting Position: Any

Weight: 0.04 ounce, 1.1 grams

1.00 (25.4) MIN .375 .285 (9.5) 1.00 (25.4) MIN 1.00 (25.4) MIN .375 (9.5) .7.2) .375 (9.5) .7.2) .375 (9.5) .7.2) .375 (7.2) .375 (4.8) .7.2)

DO-201AD

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%.

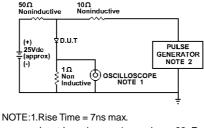
	PG300R	PG301R	PG302R	PG304R	PG306R	PG308R	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	V
Maximum RMS Voltage	35	70	140	280	420	560	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	V
Maximum Average Forward Rectified Current .375", 9.5mm Lead Length at T _A =55 ¢J	3.0						Α
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load(JECEC method)	125						А
Maximum Forward Voltage at 3.0A	1.3						V
Maximum Reverse Current at Rated DC T _a =25 ¢J	5.0						£g A
Blocking Voltage T _a =100 ¢J	300						
Typical Junction capacitance (Note 1) CJ	60						₽F
Typical Thermal Resistance (Note 2) R £K JA	22.0						¢J ////
Maximum Reverse Recovery Time(Note 3)	150	150	150	150	250	500	ns
Operating and Storage Temperature Range T _A	-55 to +150						¢J

NOTES:

- 1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC
- 2. Thermal resistance from junction to ambient at 0.375"(9.5mm) lead length P.C.B. mounted
- 3. Reverse Recovery Test Conditions: I_F=.5A, I_R=1A, Irr=.25A



RATING AND CHARACTERISTIC CURVES PG300R THRU PG308R



NOTE:1.Rise Time = 7ns max.

Input Impedance = 1 megohm. 22pF

2.Rise Time = 10ns max.

Source Impedance = 50 Ohms

SET TIME DASE FOR 50 ns/cm

+0.5A

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

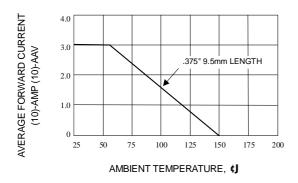


Fig. 2-FORWARD CURRENT CURVE

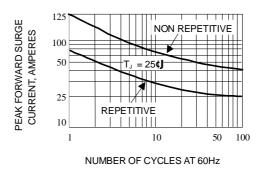


Fig. 3-PEAK FORWARD SURGE CURRENT

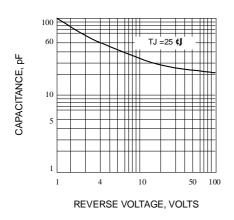


Fig. 4-TYPICAL JUNCTION CAPACITANCE

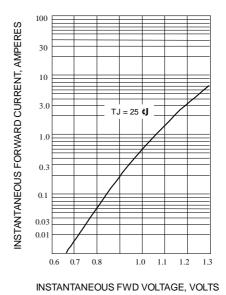


Fig. 5-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

