PG300R THRU PG308R

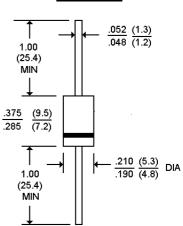
GLASS PASSIVATED JUNCTION FAST SWITCHING RECTIFIER VOLTAGE - 50 to 800 Volts CURRENT - 3.0 Amperes

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 $T_A=55 \text{ }^{\text{L}}$ 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



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%.

PG300R	PG301R	PG302R	PG304R	PG306R	PG308R	UNITS
50	100	200	400	600	800	V
35	70	140	280	420	560	V
50	100	200	400	600	800	V
3.0					A	
125					A	
1.3					V	
5.0					£g A	
300						
60					₽F	
22.0					¢J/W	
150	150	150	150	250	500	ns
-55 to +150					¢J	
	50 35 50	50 100 35 70 50 100	50 100 200 35 70 140 50 100 200 3 3 3 12 12 12 13 5 30 140 50 100 140 50 120 12 12 12 140 5 30 150 150 150	50 100 200 400 35 70 140 280 50 100 200 400 3.0 3.0 3.0 1.25 1.3 5.0 300 60 22.0 150 150 150 150	50 100 200 400 600 35 70 140 280 420 50 100 200 400 600 3.0 125 1.3 5.0 300 60 22.0 150 150 150 150 250	35 70 140 280 420 560 50 100 200 400 600 800 3.0 125 1.3 5.0 300 300 60 22.0 150 150 150 250 500

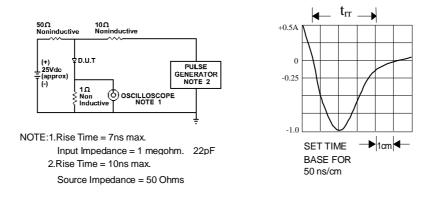
NOTES:

- 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



DO-201AD

RATING AND CHARACTERISTIC CURVES PG300R THRU PG308R





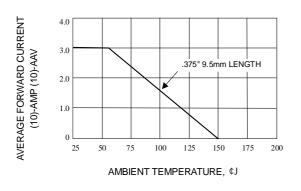


Fig. 2-FORWARD CURRENT CURVE

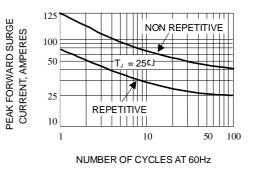
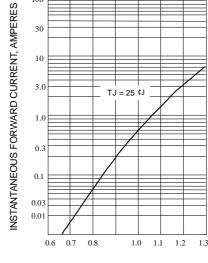


Fig. 3-PEAK FORWARD SURGE CURRENT



100

INSTANTANEOUS FWD VOLTAGE, VOLTS



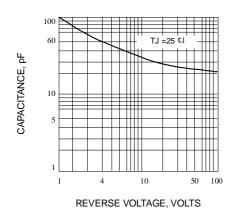


Fig. 4-TYPICAL JUNCTION CAPACITANCE

