PG150R THRU PG158R

GLASS PASSIVATED JUNCTION FAST SWITCHING RECTIFIER VOLTAGE - 50 to 800 Volts CURRENT - 1.5 Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O Utilizing Flame Retardant Epoxy Molding Compound
- 1.5 ampere operation at T_A=55 **¢ J** with no thermal runaway
- Exceeds environmental standards of MIL-S-19500/228
- Fast switching for high efficiency
- Glass passivated junction in DO-15 package

MECHANICAL DATA

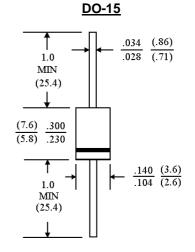
Case: Molded plastic, DO-15

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

Method 208

Polarity: denotes cathode Mounting Position: Any

Weight: 0.015 ounce, 0.4 gram



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.

	PG150R	PG151R	PG152R	PG154R	PG156R	PG158R	UNITS
Peak Reverse Voltage, Repetitive; V _{RM}	50	100	200	400	600	800	V
Maximum RMS Voltage	35	70	140	280	420	560	V
DC Reverse Voltage; V _R	50	100	200	400	600	800	V
Average Forward Current, IO @ T _A =55 ¢J 3.8"lead	1.5						Α
length 60 Hz, resistive or inductive load							
Peak Forward Surge Current, I _{FM} (surge) 8.3msec.	50						Α
single half sine wave superimposed on rated							
load(JECEC method)							
Maximum Forward Voltage V _F @1.5A, 25 ¢J	1.3						V
Maximum Reverse Current, @Rated T _a =25 ¢ J	5.0						£g A
Reverse Voltage T _a =100 ¢J	150						
Typical Junction capacitance (Note 1) CJ	25						₽F
Typical Thermal Resistance (Note 2) R fK JA	45						¢J /W
Reverse Recovery Time	150	150	150	150	250	500	ns
<u>I_F=.5A</u> , I _R =1A, Irr=.25A							
Operating and Storage Temperature Range	-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



RATING AND CHARACTERISTIC CURVES PG150R THRU PG158R

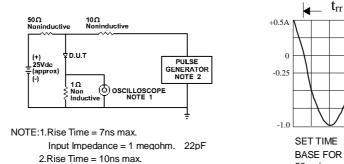
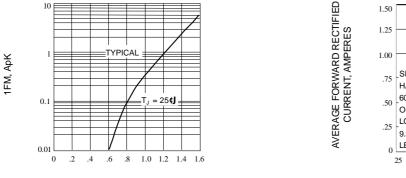


Fig. 1-REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



Source Impedance = 50 Ohms

Fig. 2-FORWARD CHARACTERISTICS

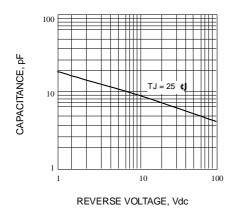
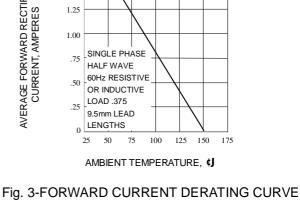


Fig. 4-TYPICAL JUNCTION CAPACITANCE vs. **REVERSE VOLTAGE**



50 ns/cm

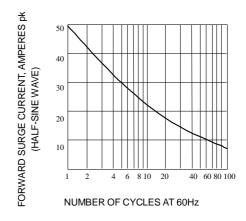


Fig. 5-PEAK FORWARD SURGE CURRENT

