PG150 THRU PG1510

GLASS PASSIVATED JUNCTION PLASTIC RECTIFIER VOLTAGE - 50 to 1000 Volts CURRENT - 1.5 Amperes

FEATURES DO-15

 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
- Glass passivated junction

MECHANICAL DATA

Case: Molded plastic, DO-15

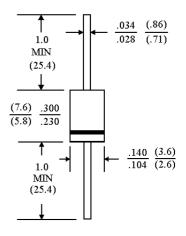
Terminals: Axial leads, solderable per MIL-STD-202,

Method 208

Polarity: Color band 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 ¢J ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

1 of capacitive load, delate carrent by 2070.								
	PG150	PG151	PG152	PG154	PG156	PG158	PG1510	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at T _A =55 ¢J				1.5				A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	50							А
Maximum Forward Voltage at 1.5A	1.1							V
Maximum Reverse Current T _a =25 [¢] J	5.0							£g A
at Rated DC Blocking Voltage T _a =100 ¢J	50							£g A
Typical Junction capacitance (Note 1)	25							₽F
Typical Thermal Resistance (Note 2) R £KJA	45.0							¢J/W
Operating and Storage Temperature Range T _A			-5	5 TO +15	50			¢J

NOTES:

- 1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- 2. Thermal Resistance from Junction to Ambient and from junction to lead at 0.375"(9.5mm) lead length P.C.B mounted.



RATING AND CHARACTERISTIC CURVES PG150 THRU PG1510

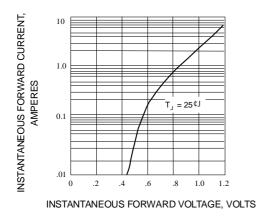


Fig. 1-TYPICAL FORWARD CHARACTERISTICS

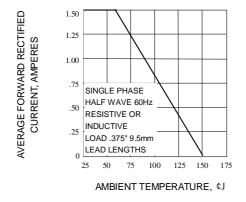


Fig. 3-FORWARD CURRENT DERATING CURVE

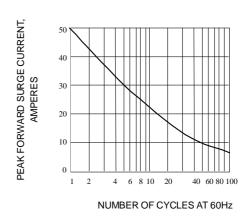


Fig. 2-PEAK FORWARD SURGE CURRENT

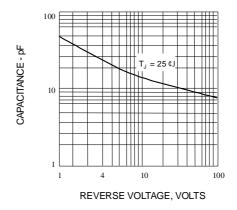


Fig. 4-TYPICAL JUNCTION CAPACITANCE

