PG150 THRU PG1510

GLASS PASSIVATED JUNCTION PLASTIC RECTIFIER VOLTAGE - 50 to 1000 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
- Glass passivated junction

MECHANICAL DATA

Case: Molded plastic, DO-15

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

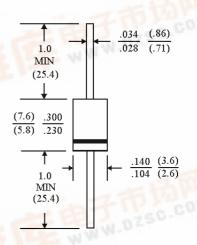
Method 208

Polarity: Color band denotes cathode

Mounting Position: Any

Weight: 0.015 ounce, 0.4 gram

DO-15



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%.

	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				1.5				Α
Current .375"(9.5mm) Lead Length at	-7-W							
T _A =55 ¢J	TO L							
Peak Forward Surge Current 8.3ms single	50							Α
half sine-wave superimposed on rated load								
(JEDEC method)								
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			-5	5 TO +1	50		•	¢J
T _A	J. W							

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

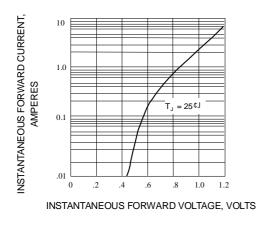


Fig. 1-TYPICAL FORWARD CHARACTERISTICS

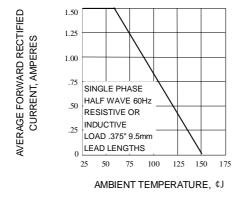


Fig. 3-FORWARD CURRENT DERATING CURVE

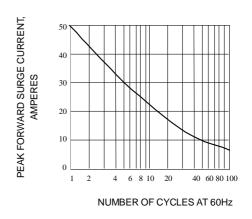


Fig. 2-PEAK FORWARD SURGE CURRENT

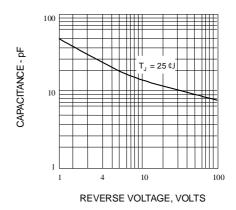


Fig. 4-TYPICAL JUNCTION CAPACITANCE