



DATA SHEET

P\$150~P\$1510

PLASTIC SILICON RECTIFIER VOLTAGE 50 to 1000 Volts CURRENT - 1.5 Amperes

FEATURES

- Low cost
- · High current capability
- Plastic package has Underwriters Laboratories Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- 1.5 Ampere operation at T_A =50°C with no thermal runaway.
- Exceeds environmental standards of MIL-S-19500/228
- Low leakage

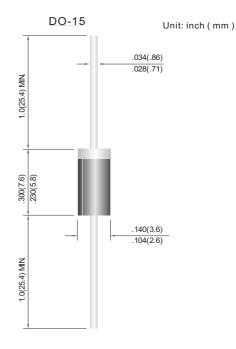
MECHANICAL DATA

Case: Molded plastic, DO-15

Terminals: Axial leads, solderable to MIL-STD-202, Method 208

Polarity: Color Band denotes cathode end

Mounting Position: Any Weight: 0.015 ounce, 0.4 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Resistive or inductive load, 60Hz.

	PS150	PS151	PS152	PS154	PS156	PS158	PS1510	UNIT
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	٧
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Current .375"(9.5mm) lead length at T _A =60°C	1.5							А
Peak Forward Surge Current, IFM (surge):8.3ms single half sine-wave superimposed on rated load(JEDEC method)	50.0							Α
Maximum Forward Voltage at 1.5A DC	1.10							V
Maximum DC Reverse Current at Rated DC Blocking Voltage T_a =25°C	5.0							μΑ
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_A=100$ °C	500							μA
Typical Junction capacitance (Note 1)	25.0							pF
Typical Junction Resistance(Note 2) RθJA	45.0							°C/ W
Operating and Storage Temperature Range ${\rm T_J,T_{\rm STG}}$	-55 to +150							°C

NOTES:1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC

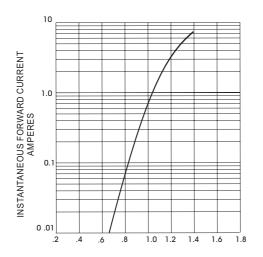
 $2.\ Thermal\ resistance\ from\ junction\ to\ lead\ length\ 0.375" (9.5mm)\ P.C.B.\ mounted$

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RATING AND CHARACTERISTIC CURVES



INSTANITANEOUS FORWARD VOLTAGE, VOLTS Fig. 1-TYPICAL FORWARD CHARACTERISTICS

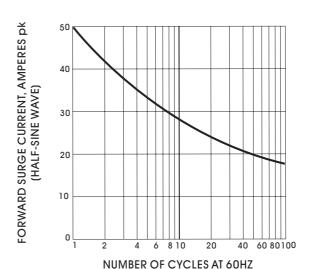
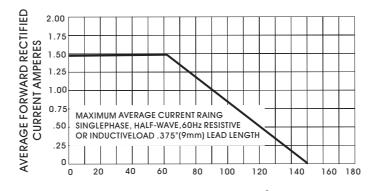
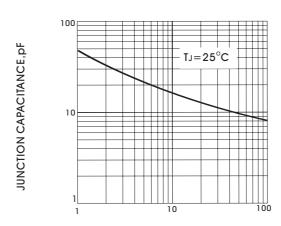


Fig. 2-MAXIMUM OVERLOAD SURGE-CURRENT



AMBIENT TEMPERATURE, °C Fig. 3-FORWARD DERATING CURVE



REVERSE VOLTAGE, VOLTS
Fig.4- TYPICAL JUNCTION CAPACITANCE

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