



DATA SHEET

PS200~PS2010

PLASTIC SILICON RECTIFIER VOLTAGE 50 to 1000 Volts CURRENT - 2.0 Amperes

FEATURES

- Low cost
- · High current capability
- Plastic package has Underwriters Laboratories Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- 2.0 ampere operation at TA = 55°C with no thermal runaway
- Exceeds environmental standards of MIL-S-19500/228
- Low leakage

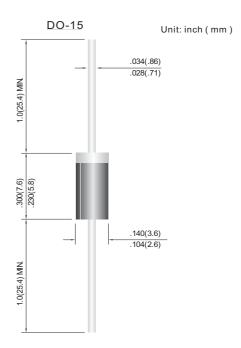


Case: Molded plastic, DO-15

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.

	PS200	PS201	PS202	PS204	PS206	PS208	PS2010	UNIT
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 Current .375"(9.5mm) lead length at T _A =60°C	2.0							А
Peak Forward Surge Current, IFM (surge):8.3ms single half sine-wave superimposed on rated load(JEDEC method)	70.0							А
Maximum Forward Voltage at 2.0A DC	1.10							V
Maximum DC Reverse Current at Rated DC Blocking Voltage T_A =25°C	5.0							μА
Maximum DC Reverse Current at Rated DC Blocking Voltage $\rm T_A = 100^{\circ}C$	500							μΑ
Typical Junction capacitance (Note 1)	25.0							pF
Typical Junction Resistance(Note 2) RθJA	25.0							°C/ W
Operating and Storage Temperature Range T _J ,T _{STG}	-55 to +150							°C

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

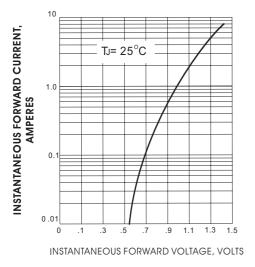
 $2.\ Thermal\ resistance\ from\ junction\ to\ lead\ length\ 0.375" (9.5mm)\ P.C.B.\ mounted$

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RATING AND CHARACTERISTIC CURVES



NUMBER OF CYCLES AT 60Hz

Fig. 2- TYPICAL FORWARD CHARACTERISTICS

Fig. 2- PEAK FORWARD SURGE CURRENT

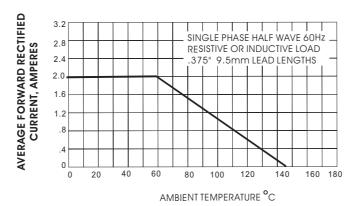


Fig. 3- FORWARDCURRENT DERATING CURVE

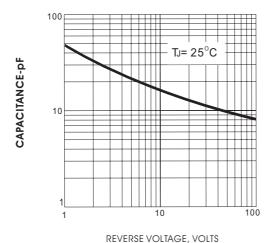


Fig. 4- TYPICAL JUNCTION CAPACITANCE

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