PANJIT SEMI CONDUCTOR

DATA SHEET

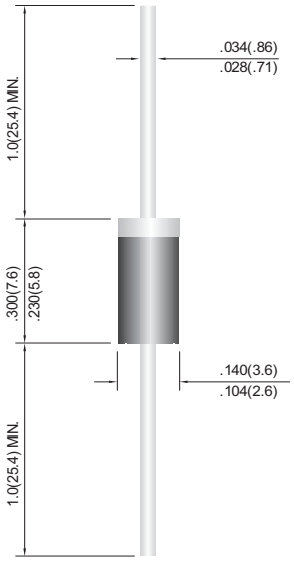
PS200~PS2010

PLASTIC SILICON RECTIFIER

VOLTAGE 50 to 1000 Volts CURRENT - 2.0 Amperes

DO-15

Unit: inch (mm)



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

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.

	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							A
Peak Forward Surge Current, IFM (surge):8.3ms single half sine-wave superimposed on rated load(JEDEC method)	70.0							A
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							μA
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	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 ambient and from junction to lead length 0.375"(9.5mm) P.C.B. mounted

RATING AND CHARACTERISTIC CURVES

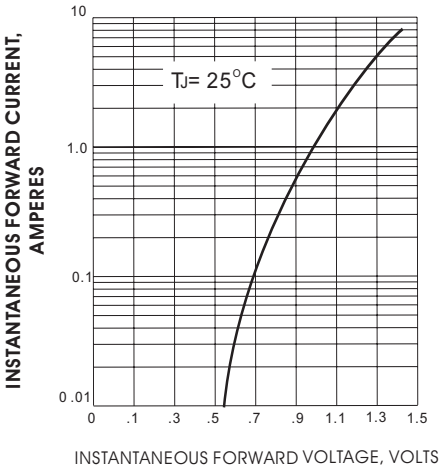


Fig.2- TYPICAL FORWARD CHARACTERISTICS

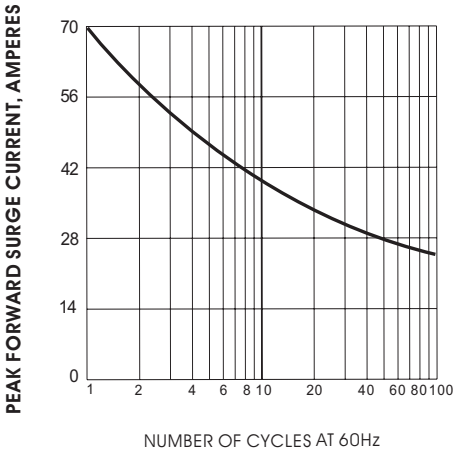


Fig.2- PEAK FORWARD SURGE CURRENT

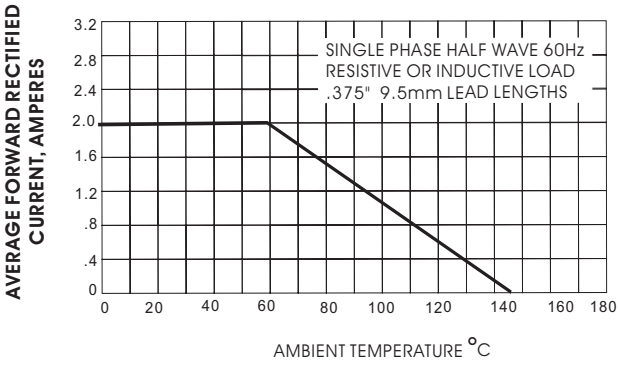


Fig.3- FORWARDCURRENT DERATING CURVE

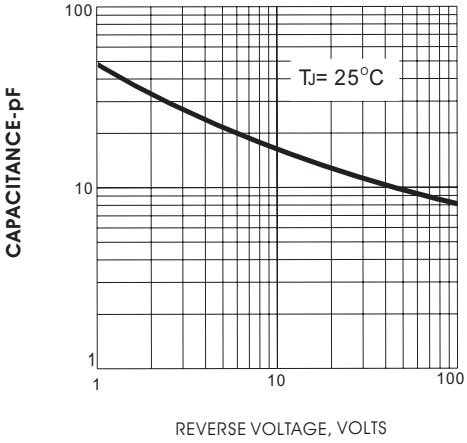


Fig.4- TYPICAL JUNCTION CAPACITANCE