PANJIT SEMI CONDUCTOR

DATA SHEET

PS200~PS2010

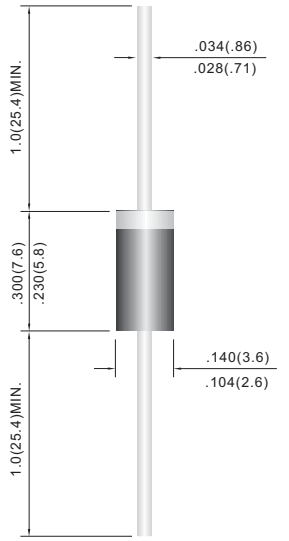
PLASTIC SILICON RECTIFIER

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.
- Exceeds environmental standards of MIL-S-19500/228
- Low leakage
- Pb free product are available : 99% Sn above can meet Rohs environment substance directive request

DO-15 Unit: inch(mm)



MECHANICALDATA

Case: Molded plastic, DO-15
Terminals: Axial leads, solderable to MIL-STD-202G,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.

PARAMETER	SYMBOL	PS200	PS201	PS202	PS204	PS206	PS208	PS2010	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Current .375"(9.5mm) lead length at T_A = 60°C	I_{AV}	2.0							A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	70							A
Maximum Forward Voltage at 2.0A	V_F	1.1							V
Maximum DC Reverse Current at TA = 25°C Rated DC Blocking Voltage TA = 100°C	I_R	5.0 500							uA
Typical Junction capacitance (Note 1)	C_J	25							pF
Typical Thermal Resistance (Note 2)	RθJA RθJL	45 25							°C / W
Operating Junction 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

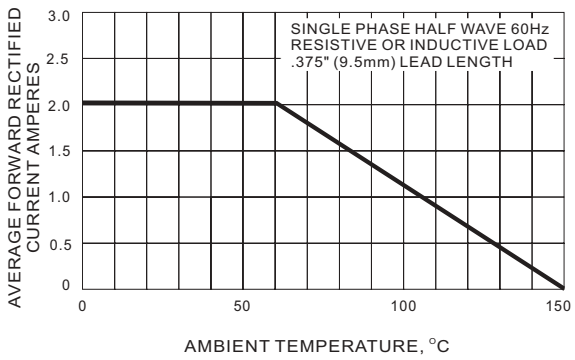


FIG.1 FORWARD CURRENT DERATING CURVE

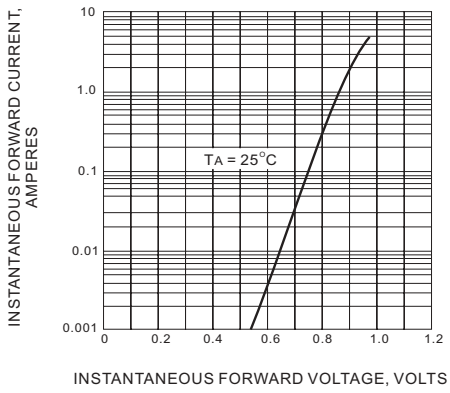


FIG.2 TYPICAL FORWARD CHARACTERISTICS

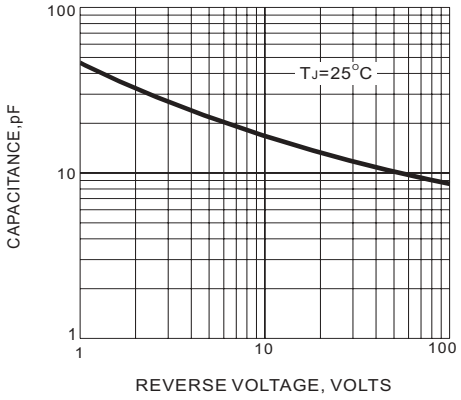


FIG.3 TYPICAL JUNCTION CAPACITANCE

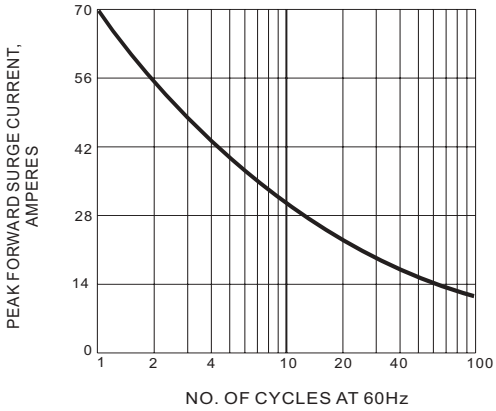


FIG.4 MAX NON-REPETITIVE SURGE CURRENT