



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

MECHANICAL DATA

Case: Molded plastic, DO-15

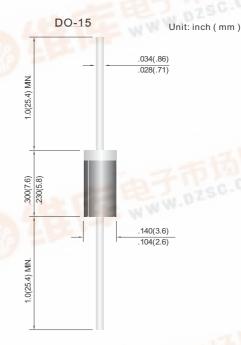
Terminals: Axial leads, solderable to MIL-STD-202, Method 208

Polarity: Color Band denotes cathode end

Mounting Position: Any

df.dzsc.com

Weight: 0.015 ounce, 0.4 gram

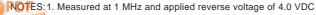


MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Resistive or inductive load, 60Hz.

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… 一大市切片	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							Α
Peak Forward Surge Current, IFM (surge):8.3ms single half sine-wave superimposed on rated load(JEDEC method)	70.0 WWW.DZ.S.G.							Α
Maximum Forward Voltage at 2.0A DC	1.10							V
Maximum DC Reverse Current at Rated DC Blocking Voltage T₄=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	25.0							°C/ W
Operating and Storage Temperature Range T_J , T_{STG}	-55 to +150							°C



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

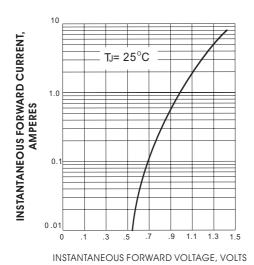


Fig. 2- TYPICAL FORWARD CHARACTERISTICS

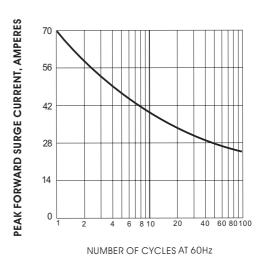


Fig. 2- PEAK FORWARD SURGE CURRENT

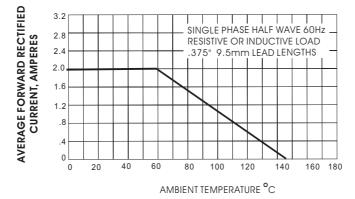


Fig. 3- FORWARDCURRENT DERATING CURVE

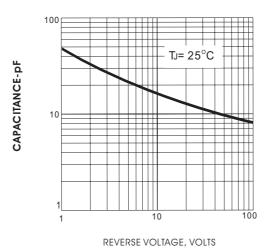


Fig. 4- TYPICAL JUNCTION CAPACITANCE