



DATA SHEET

PS200R~PS2010R

FAST SWITCHING PLASTIC RECTIFIER

VOLTAGE 50 to 1000 Volts CURRENT 2.0 Amperes

FEATURES

- High current capability.
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- · Low leakage.
- Exceeds environmental standards of MIL-S-19500/228
- Fast switching for high efficiency.
- Pb free product are available: 99% Sn above can meet Rohs environment substance directive request

MECHANICAL DATA

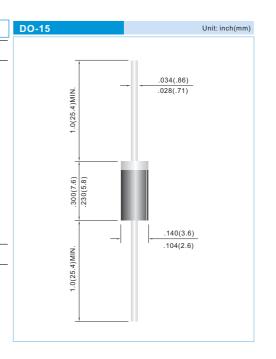
Case: Molded plastic, DO-15

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

Polarity: Color Band denotes cathode end

Mounting Position: Any

Weight: 0.0154 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	PS200R	PS201R	PS202R	PS204R	PS206R	PS208R	PS2010R	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	5 0	100	200	400	600	800	1000	V
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	Vpc	5 0	100	200	400	600	800	1000	V
Maximum Average Forward Current .375 "(9.5mm) lead length at TA=55°C	Īav	2.0							A
Peak Forward Surge Current: 8.3ms single half sine-wave superim posed on rated load(JEDEC method)	Irsm	70							A
Maximum Forward Voltage at 2.0A	VF	1.3							v
Maximum DC Reverse Current TA=25°C at Rated DC Blocking Voltage TA=100°C	Īk	5 .0 5 0 0							uA
Maximum Reverse Recovery Time (Note 1)	Trr	150 250 500					00	ns	
Typical Junction capacitance (Note 2)	Сл	35							pF
TypicalThermalResistance (Note 3)	R 0JA	40							°C /W
Operating Junction and Storage Temperature Range	TJ,TSTG	-55 TO +150							°C

NOTES:1. Reverse Recovery Test Conditions: I_F =.5A, I_R =1A, I_{ff} =.25A

- 2. Measured at 1 MHz and applied reverse voltage of 4.0 VDC
- 3. Thermal resistance from junction to ambient at 0.375"(9.5mm) lead length with both leads equally heatsink.

STAD-FEB.12.2004 PAGE . 1





RATING AND CHARACTERISTIC CURVES

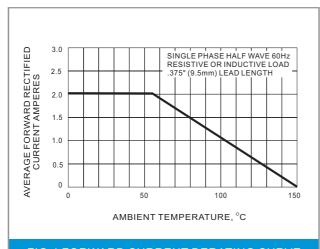


FIG.1 FORWARD CURRENT DERATING CURVE

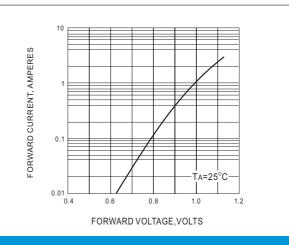
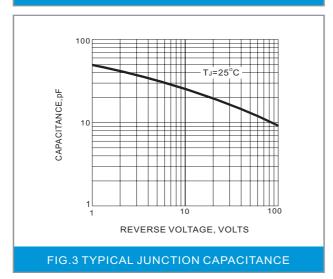


FIG.2 TYPICAL FORWARD CHARACTERISTICS



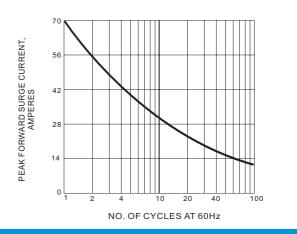


FIG.4 MAX NON-REPETITIVE SURGE CURRENT

STAD-FEB.12.2004 PAGE . 2