# **PS204S**

### 2.5AMPS . SILICON RECTIFIER

#### **FEATURE**

- . High current capability
- . Low forward voltage drop
- . Low power loss, high efficiency
- . High surge capability
- . High temperature soldering guaranteed 260°C /10sec/0.375" lead length at 5 lbs tension

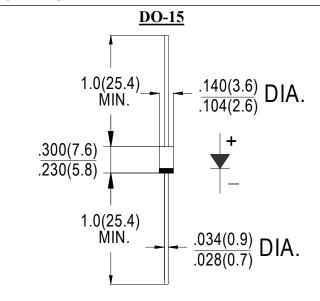
#### MECHANICAL DATA

. Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C

. Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy

. Polarity: color band denotes cathode

. Mounting position: any



Dimensions in inches and (millimeters)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Type Number	SYM BOL	PS204S	units
Maximum Recurrent Peak Reverse Voltage	$V_{ m RRM}$	1000	V
Maximum RMS Voltage	$V_{ m RMS}$	700	V
Maximum DC blocking Voltage	$V_{ m DC}$	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) lead length	I <sub>F(AV)</sub>	2.5	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{ m FSM}$	80.0	A
Maximum Forward Voltage at 2.5A DC	$V_{\mathrm{F}}$	1.0	V
Maximum DC Reverse Current @T <sub>J</sub> =25°C at rated DC blocking voltage @T <sub>J</sub> =100°C	$I_{ m R}$	5.0 100.0	μΑ
Typical Junction Capacitance (Note 1)	Cj	30	pF
Typical Thermal Resistance (Note 2)	$R_{(JA)}$	50	°C /W
Storage Temperature	T <sub>STG</sub>	-55 to +150	°C
Operation Junction Temperature	$T_{ m J}$	-55 to +150	°C

#### Note:

- 1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 2. Thermal Resistance from Junction to Ambient at 0.375" (9.5mm) lead length, vertical P.C.Board Mounted

## RATING AND CHARACTERISTIC CURVES (PS204S)

