

## **SB5P60 5.0AMPS. SCHOTTKY BARRIER RECTIFIERS** DO-27/DO-201AD FEATURE . High current capability . Low forward voltage drop 0.96(24.4).220(5.6) DIA. MIN. -. Low power loss, high efficiency $.\overline{187(5.0)}$ . High surge capability . High temperature soldering guaranteed 260°C /1 0sec/0.375" lead length at 5 lbs tension .375(9.5) .335(8.5) **MECHANICAL DATA** . Terminal: Plated axial leads solderable per 0.96(24.4).051(<u>1.3</u>) DIA. MIL-STD 202E, method 208C MIN. . Case: Molded with UL-94 Class V-0 recognized .043(1.1)Flame Retardant Epoxy . Polarity: color band denotes cathode Dimensions in inches and (millimeters) . Mounting position: any 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% **SYM SB5P60 Type Number** units BOL **V**<sub>RRM</sub> Maximum Recurrent Peak Reverse Voltage 60 V **V<sub>RMS</sub>** V 42 Maximum RMS Voltage VDC V Maximum DC blocking Voltage 60 Maximum Average Forward Rectified Current I<sub>F(AV)</sub> 5.0 А .375"(9.5mm) lead length at $T_L = 100^{\circ}C$ Peak Forward Surge Current 8.3ms single half 100 Α **I**FSM sine-wave superimposed on rated load (JEDEC method) At 5.0A DC V<sub>F Max</sub> 0.52 v Forward Voltage @T<sub>A</sub>=25°C At 1.0A DC 0.33 V<sub>F Tvp</sub> Maximum DC Reverse Current 02 $(a)T_A=25^{\circ}C$ $I_{\rm R}$ mA @T<sub>A</sub>=100°C at rated DC blocking voltage 10 Typical Junction Capacitance (Note1) CJ 400 pF $R_{(JA)}$ 50 °C/W Typical Thermal Resistance (Note2) 14 $R_{(JL)}$ Storage Temperature **T**STG -55 to +150 °C **Operating Junction Temperature** Тı -55 to +150 °C

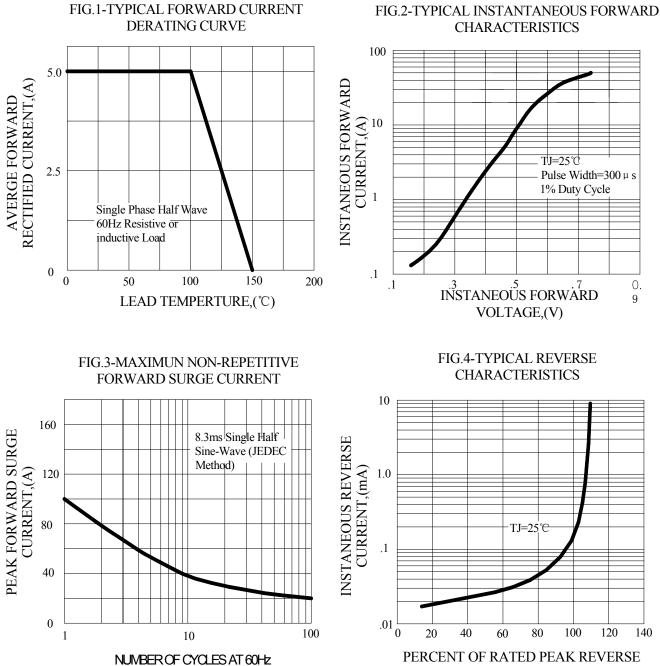
## Note:

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 (SB5P60)



VOLTAGE,(%)