# **SB345S**

#### SCHOTTKY BARRIER RECTIFIER

**VOLTAGE: 45V** 

CURRENT: 3.0A

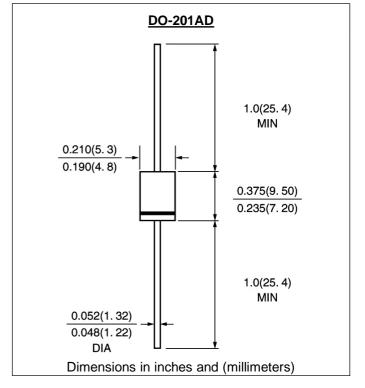


## **FEATURE**

High current capability, Low forward voltage drop Low power loss, high efficiency High surge capability High temperature soldering guaranteed 250℃ /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



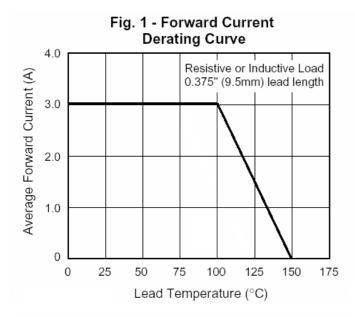
# MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

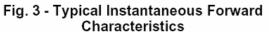
(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

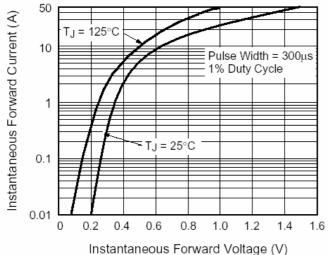
|   | SYMBOL   | SB345S      | units |
|---|----------|-------------|-------|
| Maximum Recurrent Peak Reverse Voltage  | Vrrm     | 45          | V     |
| Maximum RMS Voltage   | Vrms     | 31.5        | V     |
| Maximum DC blocking Voltage   | Vdc      | 45          | V     |
| Maximum Average Forward Rectified<br>Current 3/8" lead length                                 | lf(av)   | 3.0         | A     |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load             | lfsm     | 100         | A     |
| Maximum Forward Voltage at 3.0A DC  | Vf       | 0.50        | V     |
| Maximum DC Reverse CurrentTa = $25^{\circ}$ Cat rated DC blocking voltageTa = $100^{\circ}$ C |          | 0.5         | mA    |
|   |          | 10.0        | IIA   |
| Typical Junction Capacitance (Note  | 1) Cj    | 220.0       | pF    |
| Typical Thermal Resistance (Note  | 2) R(ja) | 30.0        | °C /V |
| Storage and Operating Junction Temperature  | Tj       | -65 to +150 | °C    |

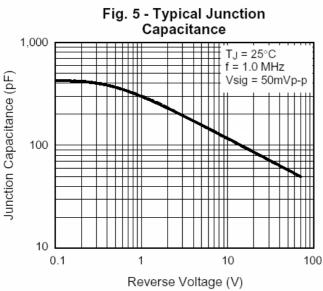
1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc 2. Thermal Resistance from Junction to Ambient at 0.5" lead length, vertical P.C. Board Mounted

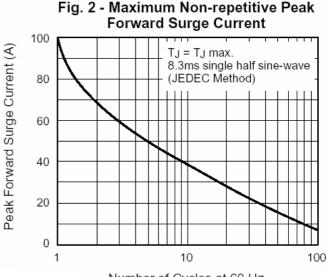
#### **RATINGS AND CHARACTERISTIC CURVES SB345S**





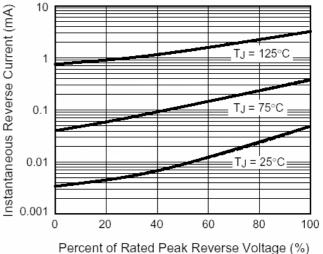


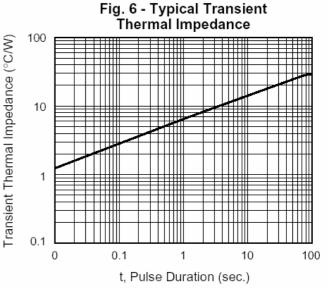




Number of Cycles at 60 Hz







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