



PINGWEI ENTERPRISE

## SR520/SB520 THRU SR5200/SB5200

### 5.0AMPS. SCHOTTKY BARRIER RECTIFIERS

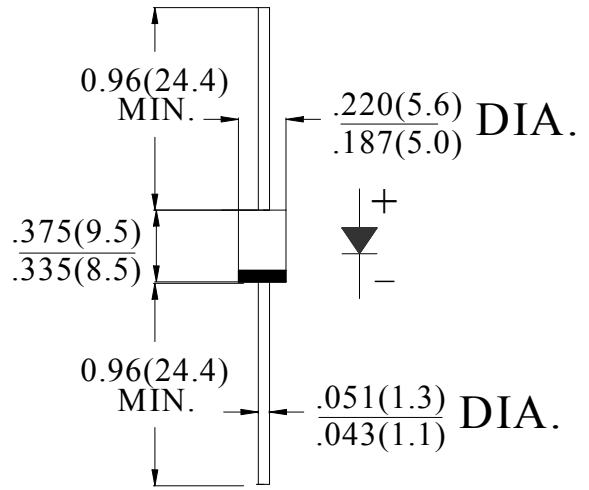
#### FEATURE

- . 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

#### DO-27/DO-201AD



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%

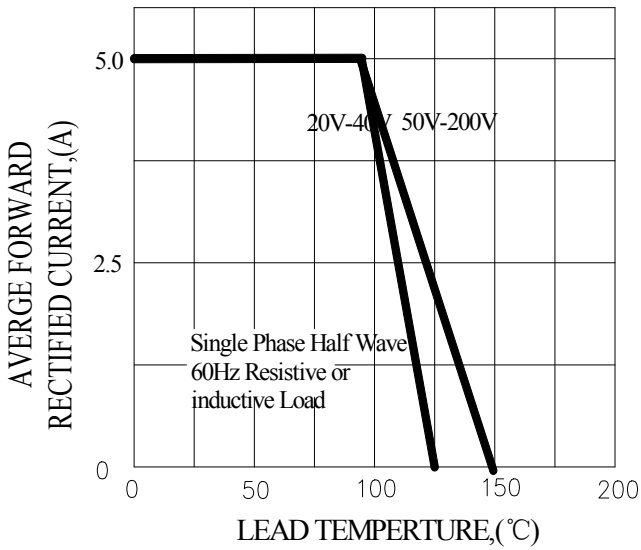
| Type Number   | SYM<br>BOL  | SR          | SR   | SR   | SR   | SR  | SR          | SR   | SR   | SR   | SR   | units                     |
|---|-------------|-------------|------|------|------|-----|-------------|------|------|------|------|---------------------------|
|   |             | 520         | 530  | 540  | 550  | 560 | 580         | 590  | 5100 | 5150 | 5200 |                           |
|   |             | SB          | SB   | SB   | SB   | SB  | SB          | SB   | SB   | SB   | SB   |                           |
| Maximum Recurrent Peak Reverse Voltage  | $V_{RRM}$   | 20          | 30   | 40   | 50   | 60  | 80          | 90   | 100  | 150  | 200  | V                         |
| Maximum RMS Voltage   | $V_{RMS}$   | 14          | 21   | 28   | 35   | 42  | 56          | 63   | 70   | 105  | 140  | V                         |
| Maximum DC blocking Voltage   | $V_{DC}$    | 20          | 30   | 40   | 50   | 60  | 80          | 90   | 100  | 150  | 200  | V                         |
| Maximum Average Forward Rectified Current<br>.375"(9.5mm) lead length at $T_L = 90^\circ\text{C}$                 | $I_{F(AV)}$ | 5.0         |      |      |      |     |             |      |      |      |      | A                         |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)                  | $I_{FSM}$   | 120.0       |      |      |      |     |             |      |      |      |      | A                         |
| Maximum Forward Voltage at 5.0A DC  | $V_F$       | 0.45        | 0.55 | 0.70 | 0.85 |     |             | 0.95 |      |      |      | V                         |
| Maximum DC Reverse Current @ $T_A = 25^\circ\text{C}$<br>at rated DC blocking voltage @ $T_A = 100^\circ\text{C}$ | $I_R$       | 0.5         |      |      |      |     | 0.1         |      |      |      |      | mA                        |
|   |             | 40.0        |      |      |      |     | 10.0        |      |      |      |      |                           |
| Typical Junction Capacitance (Note 1)   | $C_J$       | 500         |      |      |      |     | 112         |      |      |      |      | pF                        |
| Typical Thermal Resistance (Note 2)   | $R_{(JA)}$  | 40          |      |      |      |     |             |      |      |      |      | $^\circ\text{C}/\text{W}$ |
| Storage Temperature   | $T_{STG}$   | -55 to +150 |      |      |      |     |             |      |      |      |      | $^\circ\text{C}$          |
| Operation Junction Temperature  | $T_J$       | -55 to +125 |      |      |      |     | -55 to +150 |      |      |      |      | $^\circ\text{C}$          |

#### Note:

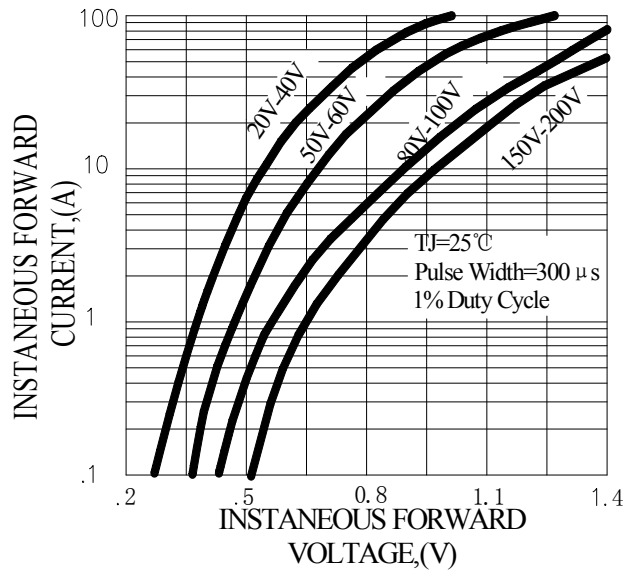
1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
2. Thermal Resistance from Junction to Ambient at 0.375" (9.5mm) lead length, vertical P.C.Board Mounted.

**RATING AND CHARACTERISTIC CURVES (SR520/SB520 THRU SR5200/SB5200)**

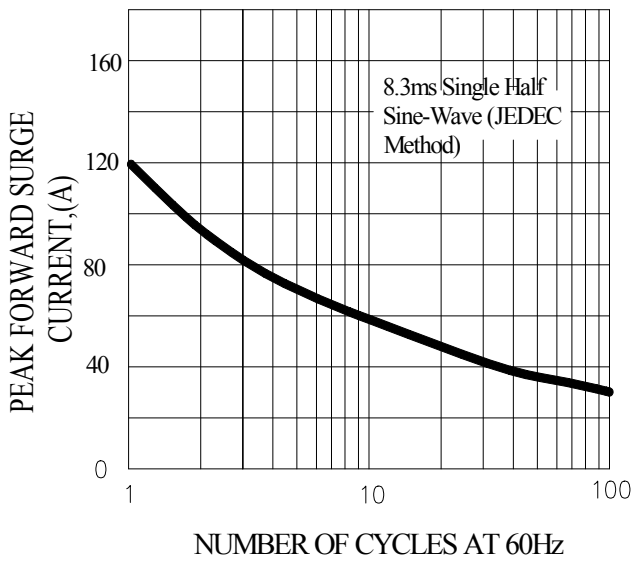
**FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE**



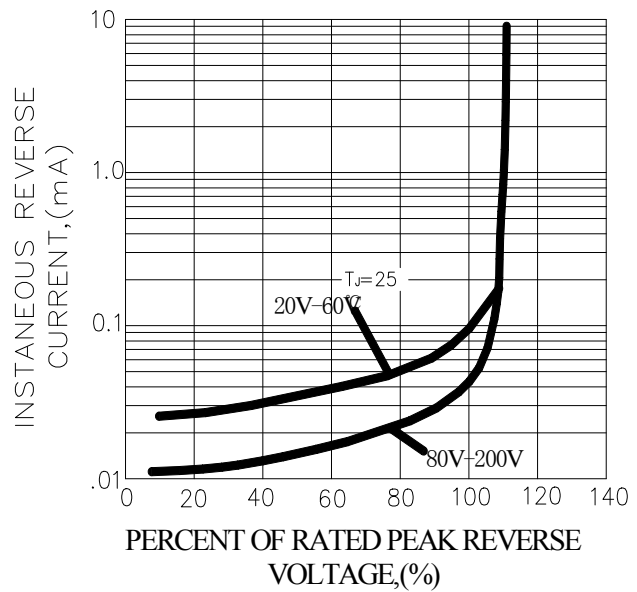
**FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**



**FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT**



**FIG.4-TYPICAL REVERSE CHARACTERISTICS**



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