

## SB320 - SB3B0

**PRV : 20 - 100 Volts**

**I<sub>o</sub> : 3.0 Amperes**

### FEATURES :

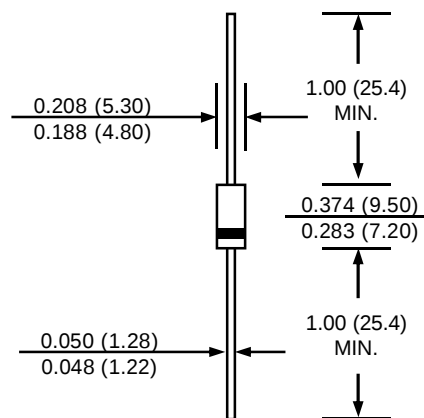
- \* High current capability
- \* High surge current capability
- \* High reliability
- \* High efficiency
- \* Low power loss
- \* Low forward voltage drop
- \* **Pb / RoHS Free**

### MECHANICAL DATA :

- \* Case : DO-201AD Molded plastic
- \* Epoxy : UL94V-O rate flame retardant
- \* Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- \* Polarity : Color band denotes cathode end
- \* Mounting position : Any
- \* Weight : 1.1 grams

## SCHOTTKY BARRIER RECTIFIER DIODES

### DO - 201AD



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

| RATING                                                                                                          | SYMBOL             | SB 320        | SB 330 | SB 340 | SB 350        | SB 360 | SB 370 | SB 380 | SB 390 | SB 3B0 | UNIT |
|-----------------------------------------------------------------------------------------------------------------|--------------------|---------------|--------|--------|---------------|--------|--------|--------|--------|--------|------|
| Maximum Recurrent Peak Reverse Voltage                                                                          | V <sub>RRM</sub>   | 20            | 30     | 40     | 50            | 60     | 70     | 80     | 90     | 100    | V    |
| Maximum RMS Voltage                                                                                             | V <sub>RMS</sub>   | 14            | 21     | 28     | 35            | 42     | 49     | 56     | 63     | 70     | V    |
| Maximum DC Blocking Voltage                                                                                     | V <sub>DC</sub>    | 20            | 30     | 40     | 50            | 60     | 70     | 80     | 90     | 100    | V    |
| Maximum Average Forward Current<br>0.375", 9.5mm Lead Length See Fig.1                                          | I <sub>F(AV)</sub> | 3.0           |        |        |               |        |        |        |        |        | A    |
| Maximum Peak Forward Surge Current,<br>8.3ms single half sine wave superimposed<br>on rated load (JEDEC Method) | I <sub>FSM</sub>   | 80            |        |        |               |        |        |        |        |        | A    |
| Maximum Forward Voltage at I <sub>F</sub> = 3.0 A                                                               | V <sub>F</sub>     | 0.5           |        |        | 0.74          |        |        | 0.79   |        |        | V    |
| Maximum Reverse Current at Ta = 25 °C                                                                           | I <sub>R</sub>     | 0.5           |        |        |               |        |        |        |        |        | mA   |
| Rated DC Blocking Voltage (Note 1) Ta = 100 °C                                                                  | I <sub>R(H)</sub>  | 20            |        |        |               |        |        |        |        |        | mA   |
| Junction Temperature Range                                                                                      | T <sub>J</sub>     | - 65 to + 125 |        |        | - 65 to + 150 |        |        |        |        |        | °C   |
| Storage Temperature Range                                                                                       | T <sub>STG</sub>   | - 65 to + 150 |        |        |               |        |        |        |        |        | °C   |

### Notes :

(1) Pulse Test : Pulse Width = 300 μs, Duty Cycle = 2%

## RATING AND CHARACTERISTIC CURVES ( SB320 - SB3B0 )

FIG.1 - FORWARD CURRENT DERATING CURVE

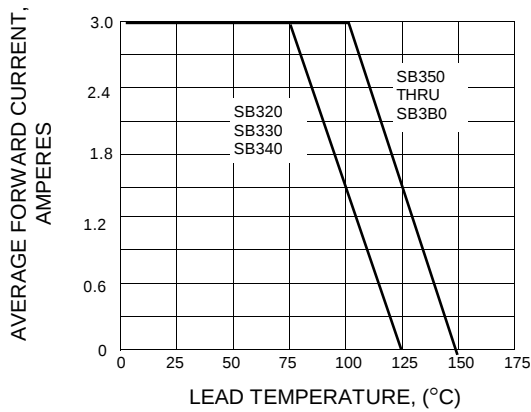


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

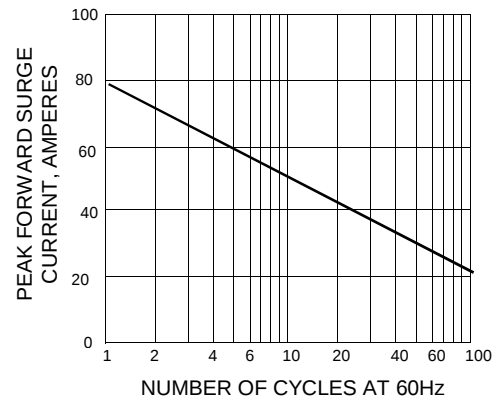


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

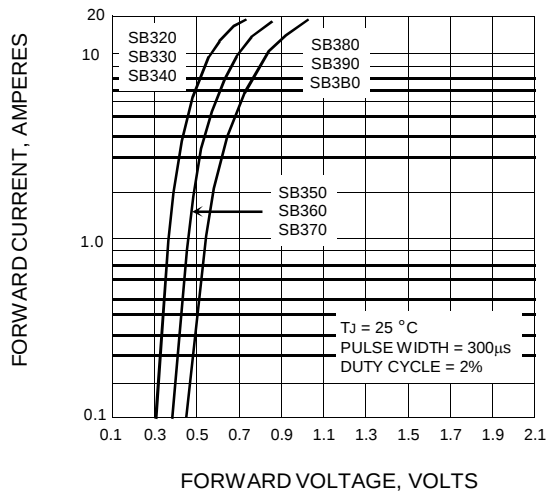
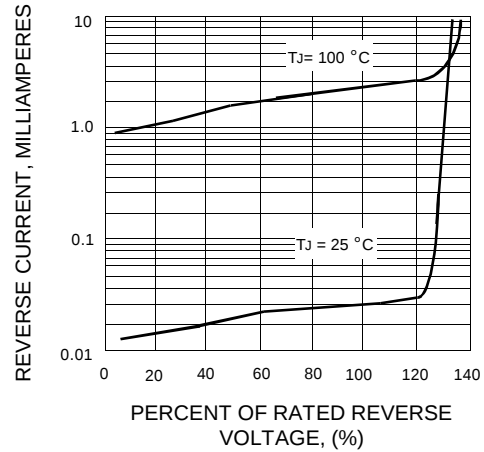


FIG.4 - TYPICAL REVERSE CHARACTERISTICS



单击下面可查看定价，库存，交付和生命周期等信息

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