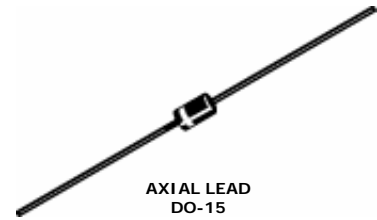


SB220 THRU SB2100 2.0AMP. Schottky Barrier Rectifier

VOLTAGE:20 TO 100V

CURRENT:2.0A



Specification Features:

- Case: Epoxy, Molded
- Weight: 0.4Gram (Approximately)
- High current capability,Low Forward Voltage Drop
- High surge current capability
- Finish: All External Surfaces Corrosion Resistant And Terminal Leads Are Readily Solderable
- Lead And Mounting Surface Temperature For Soldering Purposed:
260°C Max. For 10 Seconds 1/16 Inch From Case
- RoHS Compliant
- Cathode Indicated By Polarity Band

DEVICE MARKING DIAGRAM



SB2XX : Device Name SB220- SB2100
KEL : KEL Logo

Absolute Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise noted

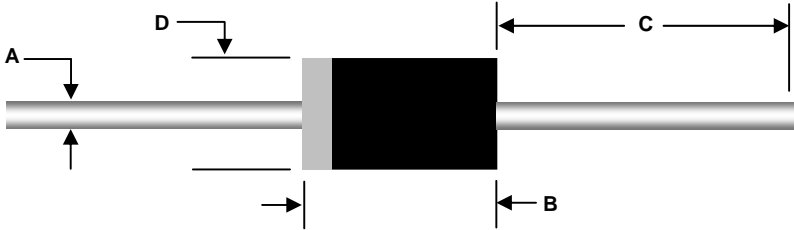
| Parameter | Symbol | SB 220 | SB 230 | SB 240 | SB 250 | SB 260 | SB 280 | SB 2100 | Units |
|--|-----------------|-------------|--------|--------|--------|--------|--------|---------|--------------------|
| Maximum Repetitive Peak Reverse Voltage | V_{RRM} | 20 | 30 | 40 | 50 | 60 | 80 | 100 | V |
| Maximum DC Blocking Voltage | V_R | 20 | 30 | 40 | 50 | 60 | 80 | 100 | V |
| Maximum Average Forward Rectifier Current. (0.375" Lead Length @ $T_A=75^\circ\text{C}$) | $I_{F(AV)}$ | 2.0 | | | | | | | A |
| Non-repetitive Peak Forward Surge Current. (8.3mS Single Half Sine-wave) | I_{FSM} | 50 | | | | | | | A |
| Operating Junction and Storage Temperature Range | T_J, T_{STG} | -65 to +125 | | | | | | | $^\circ\text{C}$ |
| Thermal Resistance (Junction to Ambient) (Note 1) | $R_{\theta JA}$ | 45 | | | | | | | $^\circ\text{C/W}$ |

Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

| Parameter | Symbol | SB 220 | SB 230 | SB 240 | SB 250 | SB 260 | SB 280 | SB 2100 | Units | |
|---|--------|--------|--------|--------|--------|-------------|--------|---------|-------|----|
| Maximum D.C Reverse Current At Rated D.C Blocking Voltage @ $T_A=25^\circ\text{C}$ @ $T_A=100^\circ\text{C}$ | I_R | | | | | 1.0 10.0 | | | | mA |
| Forward Voltage @2A | V_F | 0.500 | | | 0.700 | | 0.850 | | V | |
| Total Capacitance @ $V_R=4V, f=1\text{MHz}$ | C_T | 170 | | | | | | | pF | |

NOTE: (1) Thermal resistance from junction to ambient at 0.375" lead length, vertical P.C. board mounted

Package Outline

| Package | Case Outline | | | | |
|----------|--|-------------|-------|--------|-------|
| DO-15 |  | | | | |
| | DIM | DO-15 | | | |
| | | Millimeters | | Inches | |
| | | Min | Max | Min | Max |
| | A | 0.70 | 0.90 | 0.028 | 0.034 |
| | B | 5.80 | 7.60 | 0.230 | 0.300 |
| C | 25.40 | --- | 1.000 | --- | |
| D | 2.60 | 3.60 | 0.104 | 0.140 | |