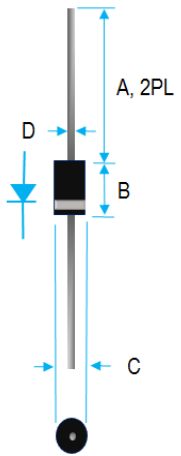


2A SCHOTTKY BARRIER RECTIFIERS

|  <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th rowspan="2">Dim.</th> <th colspan="2">Value Inch[mm]</th> </tr> <tr> <th>Min.</th> <th>Max.</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>1.000[25.40]</td> <td>---</td> </tr> <tr> <td>B</td> <td>0.230[5.84]</td> <td>0.300[7.62]</td> </tr> <tr> <td>C</td> <td>0.104[2.64]</td> <td>0.140[3.56]</td> </tr> <tr> <td>D</td> <td>0.028[0.71]</td> <td>0.034[0.86]</td> </tr> </tbody> </table> | Dim. | Value Inch[mm] | | Min. | Max. | A | 1.000[25.40] | --- | B | 0.230[5.84] | 0.300[7.62] | C | 0.104[2.64] | 0.140[3.56] | D | 0.028[0.71] | 0.034[0.86] | <h3>PRODUCT FEATURES</h3> <ol style="list-style-type: none"> 1. FLAMMABILITY CLASSIFICATION 94V-0 2. EXTREMELY LOW V_F 3. LOW STORED CHARGE 4. MAJORITY CARRIER CONDUCTION 5. LOW POWER LOSS/HIGH EFFICIENCY 6. CASE: TRANSFER MOLDED, DO-15 7. DIMENSIONS IN INCHES AND (MILLIMETERS) 8. LEADS: SOLDERABILITY PER MIL-STD-202 METHOD 208 9. WEIGHT: 0.34 GRAMS 10. RoHS COMPLIANT |
|---|--------------|----------------|--|------|------|---|--------------|-----|---|-------------|-------------|---|-------------|-------------|---|-------------|-------------|---|
| Dim. | | Value Inch[mm] | | | | | | | | | | | | | | | | |
| | Min. | Max. | | | | | | | | | | | | | | | | |
| A | 1.000[25.40] | --- | | | | | | | | | | | | | | | | |
| B | 0.230[5.84] | 0.300[7.62] | | | | | | | | | | | | | | | | |
| C | 0.104[2.64] | 0.140[3.56] | | | | | | | | | | | | | | | | |
| D | 0.028[0.71] | 0.034[0.86] | | | | | | | | | | | | | | | | |

ELECTRICAL CHARACTERISTICS

MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$ UNLESS OTHERWISE NOTED) AND ELECTRICAL CHARACTERISTICS

| RATING | SYMBOL | | UNITS |
|--|----------------|--------------|---------------------------|
| MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT, SEE FIG.1 | I_o | 2.0 | A |
| PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD | I_{FSM} | 50 | A |
| TYPICAL THERMAL RESISTANCE (NOTE 2) | $R\theta_{ja}$ | 40 | $^\circ\text{C}/\text{W}$ |
| STORAGE TEMPERATURE RANGE | T_{STG} | - 55 TO +150 | $^\circ\text{C}$ |
| OPERATING TEMPERATURE RANGE | T_{OP} | - 55 TO +150 | $^\circ\text{C}$ |
| MAXIMUM REVERSE CURRENT AT 25°C | I_R | 0.5 | mA |
| MAXIMUM REVERSE CURRENT AT 100°C | I_R | 20 | mA |

| PART NUMBER | MAX RECURRENT PK REVERSE VOLTAGE/DC BLOCKING V_{RRM}/V_R (V) | MAX V_{RMS} (V) | TYPICAL JUNCTION CAPACITANCE C_J (pF) ¹ | MAXIMUM FORWARD VOLTAGE V_F (V) ⁴ |
|-------------|--|-------------------|--|--|
| SB2150 | 150 | 28 | 110 | 0.90 |
| SB2200 | 200 | 70 | 110 | 0.92 |

- NOTE :
1. MEASURED AT 1MHz WITH APPLIED REVERSE VOLTAGE OF 4V.
 2. BOTH LEADS ATTACHED TO HEAT SINK 20x20x1T (mm) COPPER PLATE AT LEAD LENGTH 5mm.
 3. CURRENT RATING IS BASED ON SINGLE PHASE, 1/2 WAVE, 60HZ, RESISTIVE, OR INDUCTIVE LOAD. FOR CAPACITIVE LOAD, DERATE CURRENT BY 20%.
 4. MEASURED AT I_o DC.

RATINGS AND CHARACTERISTIC CURVES

FIG. 1 - FORWARD CURRENT DERATING CURVE

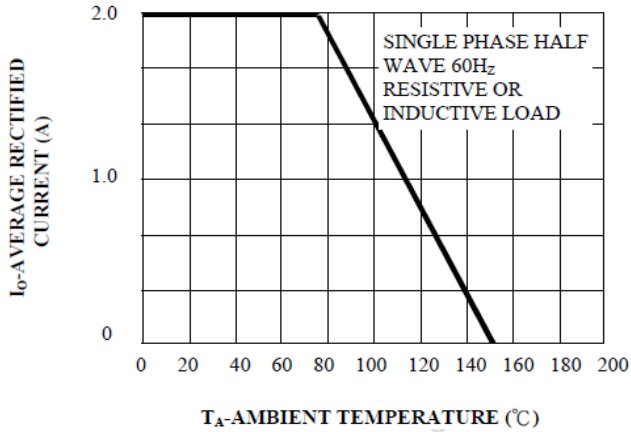


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

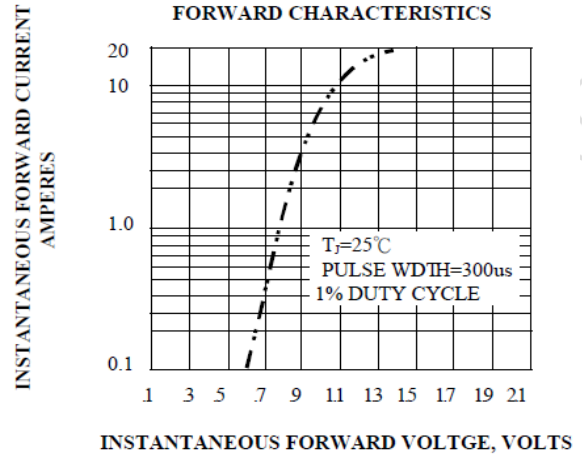


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

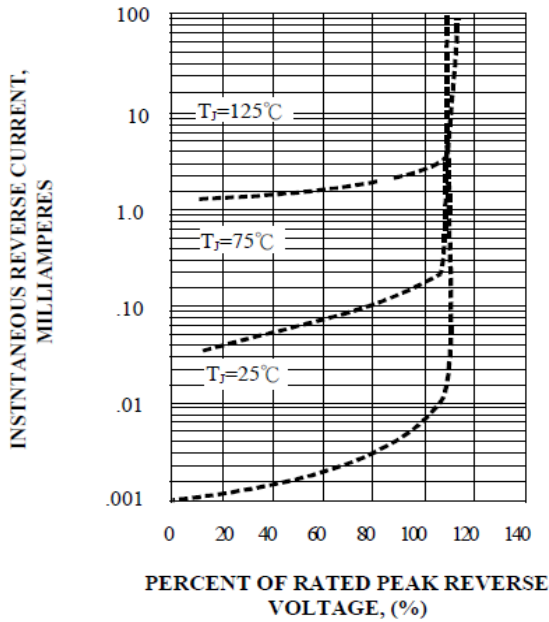


FIG. 4 - MAXIMUM NON-REPETITIVE SURGE CURRENT

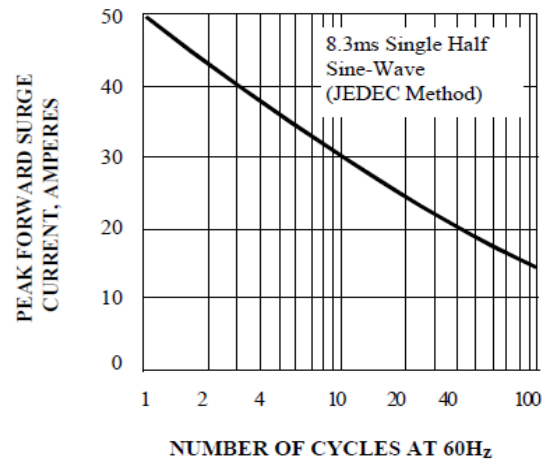


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

