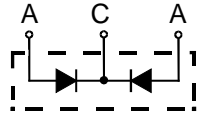
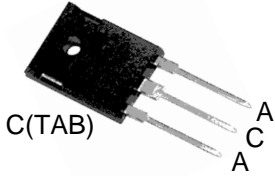


SBL1630PT thru SBL1645PT

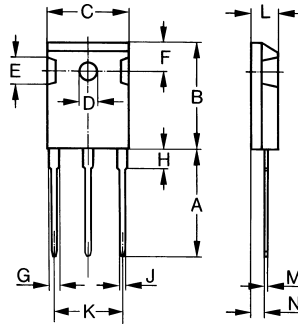
Low V_F Schottky Barrier Rectifiers



A=Anode, C=Cathode, TAB=Cathode

| | V_{RRM} V | V_{RMS} V | V_{DC} V |
|------------------|----------------|----------------|---------------|
| SBL1630PT | 30 | 21 | 30 |
| SBL1635PT | 35 | 24.5 | 35 |
| SBL1640PT | 40 | 28 | 40 |
| SBL1645PT | 45 | 31.5 | 45 |

Dimensions TO-247AD



| Dim. | Millimeter | | Inches | |
|------|------------|-------|--------|-------|
| | Min. | Max. | Min. | Max. |
| A | 19.81 | 20.32 | 0.780 | 0.800 |
| B | 20.80 | 21.46 | 0.819 | 0.845 |
| C | 15.75 | 16.26 | 0.610 | 0.640 |
| D | 3.55 | 3.65 | 0.140 | 0.144 |
| E | 4.32 | 5.49 | 0.170 | 0.216 |
| F | 5.4 | 6.2 | 0.212 | 0.244 |
| G | 1.65 | 2.13 | 0.065 | 0.084 |
| H | - | 4.5 | - | 0.177 |
| J | 1.0 | 1.4 | 0.040 | 0.055 |
| K | 10.8 | 11.0 | 0.426 | 0.433 |
| L | 4.7 | 5.3 | 0.185 | 0.209 |
| M | 0.4 | 0.8 | 0.016 | 0.031 |
| N | 1.5 | 2.49 | 0.087 | 0.102 |

| Symbol | Characteristics | Maximum Ratings | Unit |
|-----------------|---|-----------------|---------------------------|
| I_{AV} | Maximum Average Forward Rectified Current @ $T_c=95^\circ\text{C}$ | 16 | A |
| I_{FSM} | Peak Forward Surge Current 8.3ms Single Half-Sine-Wave Superimposed On Rated Load (JEDEC METHOD) | 250 | A |
| V_F | Maximum Forward Voltage At 8A DC (Note 3) | 0.55 | V |
| I_R | Maximum DC Reverse Current @ $T_J=25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_J=100^\circ\text{C}$ | 0.5 50 | mA |
| C_J | Typical Junction Capacitance Per Element (Note 1) | 500 | pF |
| $R_{\theta JC}$ | Typical Thermal Resistance (Note 2) | 3.5 | $^\circ\text{C}/\text{W}$ |
| T_J | Operating Temperature Range | -55 to +125 | $^\circ\text{C}$ |
| T_{STG} | Storage Temperature Range | -55 to +150 | $^\circ\text{C}$ |

NOTES: 1. Measured At 1.0MHz And Applied Reverse Voltage Of 4.0V DC.
2. Thermal Resistance Junction To Case.
3. 300us Pulse Width, 2% Duty Cycle.

FEATURES

- * Metal of silicon rectifier, majority carrier conduction
- * Guard ring for transient protection
- * Low power loss, high efficiency
- * High current capability, low V_F
- * High surge capacity
- * For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

MECHANICAL DATA

- * Case: TO-247AD molded plastic
- * Polarity: As marked on the body
- * Weight: 0.2 ounces, 5.6 grams
- * Mounting position: Any

SBL1630PT thru SBL1645PT

Low V_F Schottky Barrier Rectifiers

