

## Schottky Barrier Rectifiers

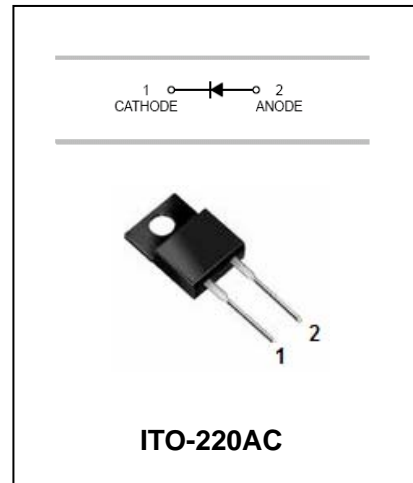
## SBLF10150-SBLF10200

### FEATURES

- Metal-Semiconductor Junction with Guard Ring.
- Epitaxial Construction.
- Low Forward Voltage Drop,Low Switching Losses.
- High Surge Capability.
- For Use in Low Voltage,High Frequency Inverters Free Wheeling,and Polarity Protection Applications.
- The Plastic Material Carries U/L Recognition 94V-0.



Lead-free



### MAXIMUM RATING operating temperature range applies unless otherwise specified

| Symbol          | Parameter   | SBLF10150   | SBLF10200 | Unit |
|-----------------|---|-------------|-----------|------|
| $V_{RRM}$       | Repetitive Peak Reverse Voltage   | 150         | 200       | V    |
| $V_{RMS}$       | RMS Voltage   | 105         | 140       | V    |
| $V_{DC}$        | DC Blocking Voltage   | 150         | 200       | V    |
| $I_{F(AV)}$     | Average Forward Rectified Current   | 10          |           | A    |
| $I_{FSM}$       | Peak Forward Surge Current 8.3ms Single Half-sine-wave superimposed on Rsted Load | 250         |           | A    |
| $R_{\theta JC}$ | Maximum Thermal Resistance(Note1)   | 5.0         |           | °C/w |
| $T_j T_{stg}$   | Operating Junction and Storage Temperature Range                                  | -55 to +150 |           | °C   |

Note:1.Thermal resistance from junction to case.



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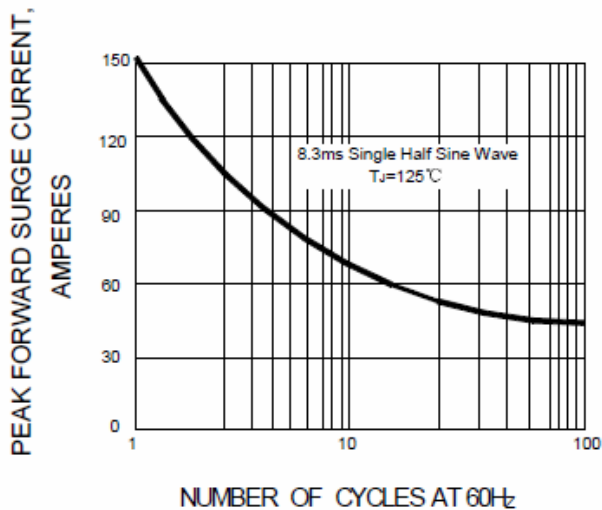
ELECTRICAL CHARACTERISTICS @  $T_a=25^\circ\text{C}$  unless otherwise specified.

| Parameter       | Symbol           | Test conditions   | SBLF10150    | SBLF10200    | UNIT |
|-----------------|------------------|---|--------------|--------------|------|
|                 |                  |   | MAX          |              |      |
| Reverse Current | $I_R$            | $V_R=V_{RRM}, T_A=25^\circ\text{C}$<br>$V_R=V_{RRM}, T_A=125^\circ\text{C}$       | 0.5          | 50           | mA   |
| Forward Voltage | $V_F$<br>(Note1) | $I_F=10\text{A}, T_A=25^\circ\text{C}$<br>$I_F=10\text{A}, T_A=125^\circ\text{C}$ | 0.90<br>0.62 | 0.95<br>0.65 | V    |

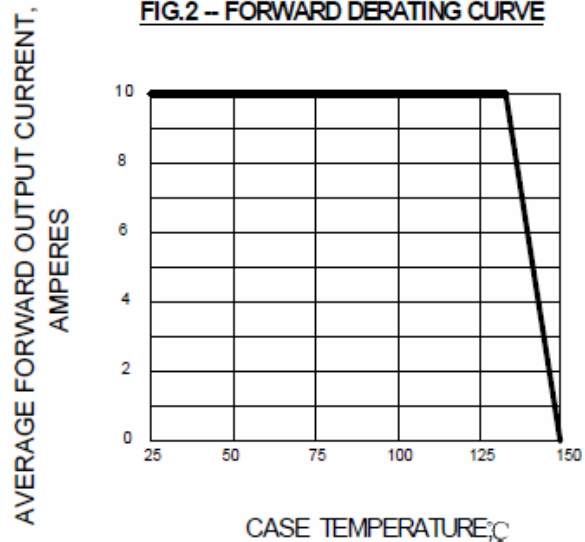
Note:1.Pulse test:300 $\mu\text{s}$  width,1% duty cycle.

TYPICAL CHARACTERISTICS @  $T_a=25^\circ\text{C}$  unless otherwise specified.

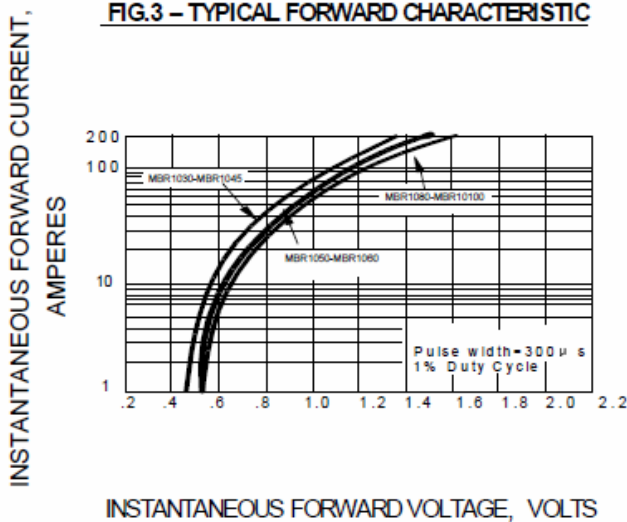
**FIG.1 – PEAK FORWARD SURGE CURRENT**



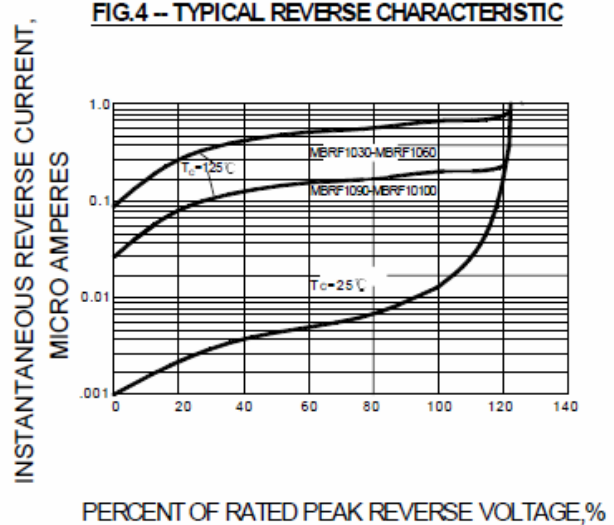
**FIG.2 – FORWARD DERATING CURVE**



**FIG.3 – TYPICAL FORWARD CHARACTERISTIC**



**FIG.4 – TYPICAL REVERSE CHARACTERISTIC**





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**PACKAGE OUTLINE**

Plastic surface mounted package

ITO-220AC

