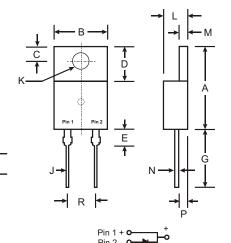


SBL1030 - SBL1060

10A SCHOTTKY BARRIER RECTIFIER

Features

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- Low Power Loss, High Efficiency
- High Surge Capability
- High Current Capability and Low Forward Voltage Drop
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Applications
- Plastic Material: UL Flammability Classification Rating 94V-0



Dim Min Max Α 14.22 15.88 В 9.65 10.67 С 2.54 3.43 D 5.84 6.86 Е 6.35 G 12.70 14.73 0.51 1.14 J Κ 3.53Ø 4.09Ø L 3.56 4.83 M 1.14 1.40 0.30 0.64 Ν Ρ 2.03 2.92 R 4.83 5.33 All Dimensions in mm

TO-220AC

Mechanical Data

Case: Molded Plastic

 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: See Diagram

Weight: 2.24 grams (approx.)

Mounting Position: Any

• Marking: Type Number

Maximum Ratings and Electrical Characteristics @ T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	SBL 1030	SBL 1035	SBL 1040	SBL 1045	SBL 1050	SBL 1060	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	30	35	40	45	50	60	V
RMS Reverse Voltage	V _{R(RMS)}	21	24.5	28	31.5	35	42	V
Average Rectified Output Current $@T_C = 95^{\circ}C$ (Note 1)	Io	10						Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	250						А
Forward Voltage Drop @ $I_F = 10A$, $T_C = 25$ °C	V _{FM}	0.60 0.75					V	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	I _{RM}	1.0 50						mA
Typical Junction Capacitance (Note 2)	Cj	700						pF
Thermal Resistance Junction to Case (Note 1)	R _θ Jc	3.5						°C/W
Operating and Storage Temperature Range	T _j , T _{STG}	-65 to +150					°C	

Notes:

- 1. Thermal resistance junction to case mounted on heatsink.
- 2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.



