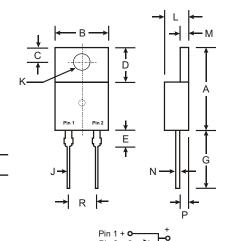


SBL1030 - SBL1060

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



TO-220AC						
Dim	Min	Max				
Α	14.22	15.88				
В	9.65	10.67				
С	2.54	3.43				
D	5.84	6.86				
E	_	6.35				
G	12.70	14.73				
J	0.51	1.14				
K	3.53Ø	4.09∅				
L	3.56	4.83				
M	1.14	1.40				
N	0.30	0.64				
Р	2.03	2.92				
R	4.83	5.33				
All Dimensions in mm						

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		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			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 ₀ Jc			3	.5			°C/W
Operating and Storage Temperature Range		-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.



