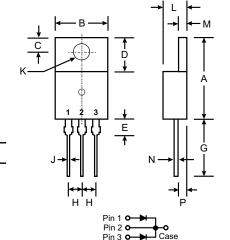


SBL1030CT - SBL1060CT

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-220AB							
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					
Н	2.29	2.79					
J	0.51	1.14					
K	3.53∅	4.09∅					
L	3.56	4.83					
М	1.14	1.40					
N	0.30	0.64					
Р	2.03	2.92					
All Dimensions in mm							

Mechanical Data

Case: Molded Plastic

Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208

Polarity: As Marked on Body

Marking: Type Number

Weight: 2.24 grams (approx.)

Mounting Position: Any

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

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

Characteristic	Symbol	SBL 1030CT	SBL 1035CT	SBL 1040CT	SBL 1045CT	SBL 1050CT	SBL 1060CT	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	٧
Average Rectified Output Current $@T_C = 95^{\circ}C$ (Note 1)	Io	I _O 10			А			
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		175					А	
Forward Voltage Drop @ $I_F = 5.0A$, $T_C = 25^{\circ}C$		0.55 0.70					V	
Peak Reverse Current @ $T_C = 25^{\circ}C$ at Rated DC Blocking Voltage @ $T_C = 125^{\circ}C$		0.5 50						mA
Typical Junction Capacitance (Note 2)		450						pF
Typical Thermal Resistance Junction to Case (Note 1)	R _{θJc}			5	.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.

