

SBL3030PT - SBL3060PT

30A 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 Application
- Plastic Material : UL Flammability Classification Rating 94V-0

TO-3P							
Dim	Min	Max					
Α	3.20	3.50					
В	4.59	5.16					
С	20.80	21.30					
D	19.70	20.20					
E	2.10	2.40					
G	0.51	0.76					
Н	15.90	16.40					
J	1.70	2.70					
K	3.10∅	3.30∅					
L	3.50	4.51					
М	5.20	5.70					
N	1.12	1.22					
Р	1.93	2.18					
Q	2.97	3.22					
R	11.70	12.80					
S	4.30 Typical						
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		SBL 3030PT	SBL 3035PT	SBL 3040PT	SBL 3045PT	SBL 3050PT	SBL 3060PT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		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)	lo	30					Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		275						А
Forward Voltage Drop @ $I_F = 15A$, $T_C = 25^{\circ}C$		0.55 0.70					70	V
Peak Reverse Current @ $T_C = 25^{\circ}C$ at Rated DC Blocking Voltage @ $T_C = 100^{\circ}C$		1.0 75						mA
Typical Junction Capacitance (Note 2)		1100						pF
Typical Thermal Resistance Junction to Case (Note 1)		2.0						K/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.

