

SBL1630PT - SBL1660PT

16A 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 94V-0

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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

Weight: 5.6 grams (approx)

Mounting Position: Any

Marking: Type Number

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 1630PT	SBL 1635PT	SBL 1640PT	SBL 1645PT	SBL 1650PT	SBL 1660PT	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	٧
Average Rectified Output Current (Note 1) @ T _C = 95°C	Io	16					Α	
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		250						А
Forward Voltage Drop @ I _F = 8.0A, T _C = 25°C	V _{FM}	0.55 0.70		70	٧			
Peak Reverse Current @T _C = 25°C at Rated DC Blocking Voltage @T _C = 100°C		0.5 50				mA		
Typical Junction Capacitance (Note 2)		700						pF
Typical Thermal Resistance Junction to Case (Note 1)		3.5						K/W
Operating and Storage Temperature Range		-65 to +150						°C

Notes:

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

