

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					
Е	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							

TO-2D

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	Symbol	SBL 1630PT	SBL 1635PT	SBL 1640PT	SBL 1645PT	SBL 1650PT	SBL 1660PT	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 (Note 1)	Io	16				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 = 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.

