

SBL1630PT - SBL1660PT

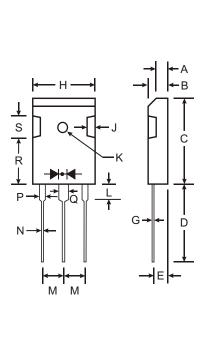
16A SCHOTTKY BARRIER RECTIFIER

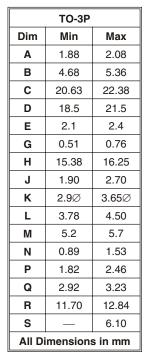
Features

- 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

Mechanical Data

- Case: Molded Plastic
- Plastic Material UL Flammability Classification 94V-0
- Moisture sensitivity: Level 1 per J-STD-020A
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Marking: Type Number
- Weight: 5.6 grams (approx)





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 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	V
Average Rectified Output Current (Note 1) $@ T_C = 95^{\circ}C$	lo	16					Α	
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	250						A
Forward Voltage Drop @ $I_F = 8.0A$, $T_C = 25^{\circ}C$	VFM	0.55 0.70				V		
$ \begin{array}{c} \mbox{Peak Reverse Current} & \mbox{@} \mbox{T}_{C} = \ 25^{\circ}\mbox{C} \\ \mbox{at Rated DC Blocking Voltage} & \mbox{@} \ \mbox{T}_{C} = \ 100^{\circ}\mbox{C} \\ \end{array} $	I _{RM}	0.5 50						mA
Typical Total Capacitance (Note 2)	CT	700					pF	
Typical Thermal Resistance Junction to Case (Note 1)	R _{0JC}	3.5					°C/W	
Operating and Storage Temperature Range	Tj, TSTG	-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.

