SBL1630CT - SBL1660CT

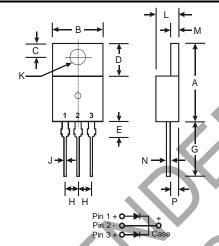
16A SCHOTTKY BARRIER RECTIFIER

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 Applications
- Lead Free Finish, RoHS Compliant (Note 3)

Mechanical Data

- Case: TO-220AB
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Finish -Tin. Solderable per MIL-STD-202, Method 208 @3
- Polarity: As Marked on Body
- Marking: Type Number
- Weight: 2.24 grams (approximate)



TO-220AB						
Dim	Min	Max				
Α	14.48	15.75				
В	10.00	10.40				
C	2.54	3.43				
D	5.90	6.40				
J	2.80	3.93				
G	12.70	14.27				
Н	2.40	2.70				
J	0.69	0.93				
K	3.54	3.78				
L	4.07	4.82				
M	1.15	1.39				
N	0.30	0.50				
J	2.04	2.79				
All Dimensions in mm						

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

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

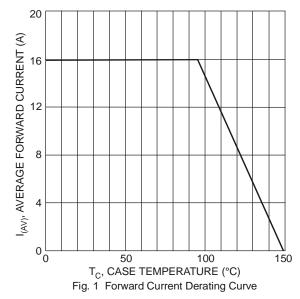
Characteristic	Symbol	SBL 1630CT	SBL 1635CT	SBL 1640CT	SBL 1645CT	SBL 1650CT	SBL 1660CT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	30	35	40	45	50	60	V
RMS Reverse Voltage	V _{R(RMS)}	21	24.5	28	31.5	35	42	V
Average Rectified Output Current (Note 1) @ Tc = 95°C	lo	16					Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}			25	50			Α
Forward Voltage Drop @ I _F = 8.0A, T _C = 25°C		0.55 0.70				70	V	
ak Reverse Current $@T_C = 25^{\circ}C$ I_{RM} 0.5 Rated DC Blocking Voltage $@T_C = 100^{\circ}C$ 50						mA		
Typical Junction Capacitance (Note 2)		700					pF	
Typical Thermal Resistance Junction to Case (Note 1)		3.5					°C/W	
Operating and Storage Temperature Range		-65 to +150					°C	

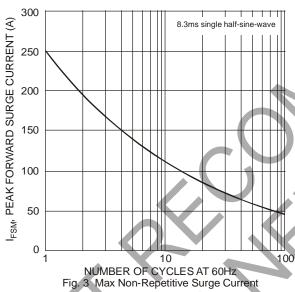
Notes:

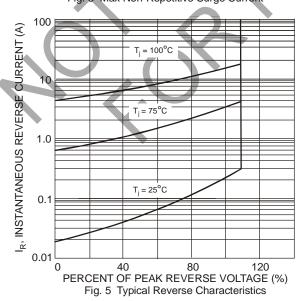
- 1. Thermal resistance junction to case mounted on heatsink.
- Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
 RoHS revision 13.2.2003. Glass and high temperature solder exemptions applied, see EU Directive Annex Notes 5 and 7.

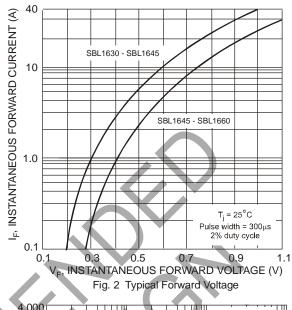
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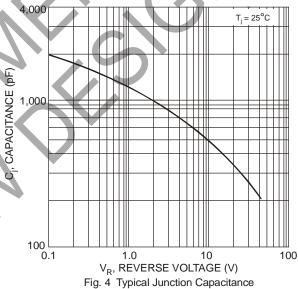














NOT RECOMMENDED FOR NEW DESIGN

Ordering Information (Note 4)

Device	Packaging	Shipping
SBL16xxCT*	TO-220AB	50/Tube

^{*} xx = Device type, e.g. SBL1645CT

Notes:

4. For packaging details, visit our website at http://www.diodes.com/datasheets/ap02007.pdf.

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