

# SB1630 - SB1660

## **16A SCHOTTKY BARRIER RECTIFIER**

#### **Features**

- Schottky Barrier Chip
- Guard Ring for Transient Protection
- High Current Capability, Low Forward
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O

### **Mechanical Data**

Case: Molded Plastic

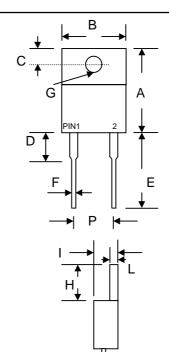
 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: See Diagram

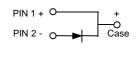
Weight: 2.24 grams (approx.)

Mounting Position: Any

Marking: Type Number



TO-220A						
Dim	Min	Max				
Α	14.9	15.1				
В	1	10.5				
С	2.62	2.87				
D	3.56	4.06				
Е	13.46	14.22				
F	0.68	0.94				
G	3.74 Ø	3.91 Ø				
Н	5.84	6.86				
ı	4.44	4.70				
J	2.54	2.79				
K	0.35	0.64				
L	1.14	1.40				
Р	4.95	5.20				
All Dimensions in mm						



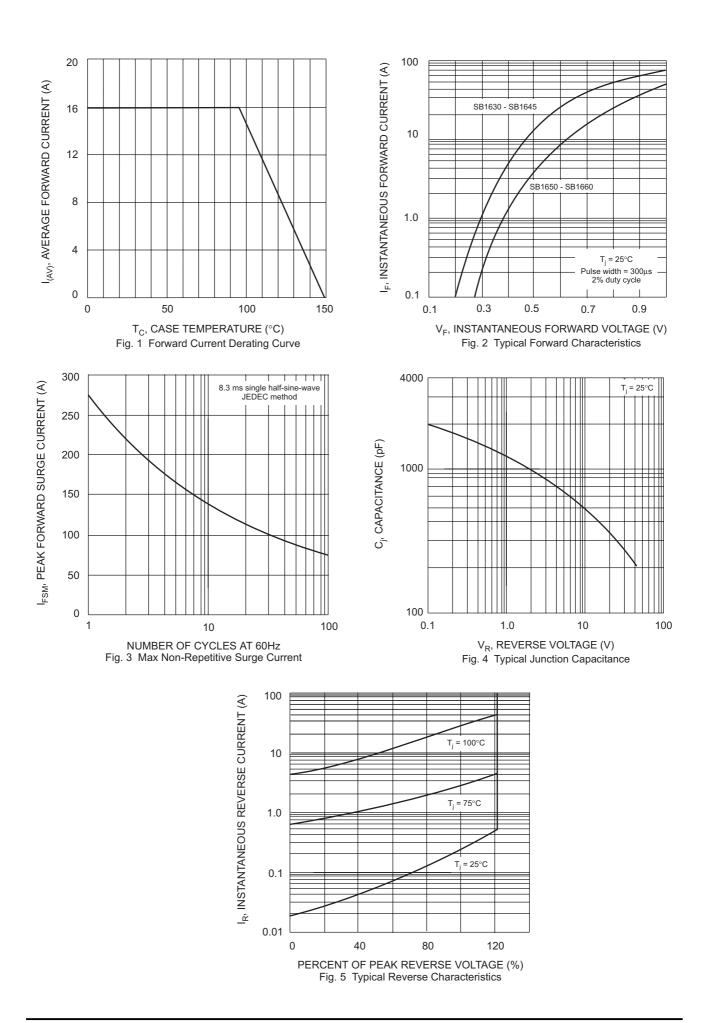
## Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

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

Characteristic		Symbol	SB1630	SB1635	SB1640	SB1645	SB1650	SB1660	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	30	35	40	45	50	60	٧
RMS Reverse Voltage		VR(RMS)	21	24.5	28	31.5	35	42	٧
Average Rectified Output Current @T <sub>C</sub> = 95°C		lo	16					Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		İFSM	275					Α	
Forward Voltage	@I <sub>F</sub> = 16A	VFM	0.57 0.75			75	V		
Peak Reverse Current At Rated DC Blocking Voltage	@T <sub>A</sub> = 25°C @T <sub>A</sub> = 100°C	lгм	1.0 50				mA		
Typical Junction Capacitance (Note 1)		Cj	700					pF	
Typical Thermal Resistance Junction to Case (Note 2)		R <sub>θ</sub> JC	3.5					K/W	
Operating and Storage Temperature Range		Тj, Tsтg	-65 to +150						°C

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance junction to case mounted on heatsink.



#### **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity
SB1630	TO-220A	50 Units/Tube
SB1635	TO-220A	50 Units/Tube
SB1640	TO-220A	50 Units/Tube
SB1645	TO-220A	50 Units/Tube
SB1650	TO-220A	50 Units/Tube
SB1660	TO-220A	50 Units/Tube

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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