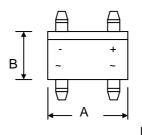


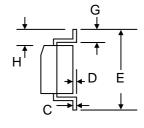
SB2S - SB10S € ROHS

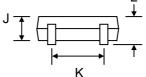
2.0A SURFACE MOUNT SCHOTTKY BRIDGE RECTIFIER

Features

- Schottky Barrier Chip
- Guard Ring Die Construction
- High Current Capability
- High Surge Current Capability
- Designed for Surface Mount Application
- Low Power Loss, High Efficiency
- Plastic Material UL Flammability 94V-0







Mechanical Data

- Case: MB-S, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Case
- Weight: 0.22 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version,
 Add "-LF" Suffix to Part Number, See Page 4

MB-S					
Dim	Min	Max			
Α	4.50	4.90			
В	3.80	4.20			
С	0.15	0.35			
D	_	0.20			
Е	_	7.00			
G	0.70	1.10			
Н	1.30	1.70			
J	2.30	2.70			
K	2.30	2.70			
L	_	3.00			
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	SB2S	SB4S	SB6S	SB8S	SB10S	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	20	40	60	80	100	V
RMS Reverse Voltage	VR(RMS)	14	28	42	56	70	V
Average Rectified Output Current (Note 1) @T _L = 100°C	lo	2.0					Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	50					А
Forward Voltage per diode @I _F = 1.0A	VFM	0.	50	0.70	0.	85	V
	IRM			0.5 20			mA
Typical Junction Capacitance per leg (Note 2)	Cj	150				pF	
Typical Thermal Resistance (Note 1)	R⊕JL	20				°C/W	
Operating and Storage Temperature Range	Тj, Tsтg	-55 to +150					°C

Note: 1. Mounted on aluminum substrate PC board with 1.3mm² solder pad.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

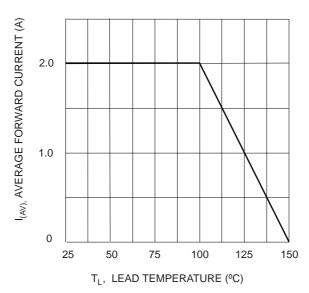


Fig. 1 Forward Current Derating Curve

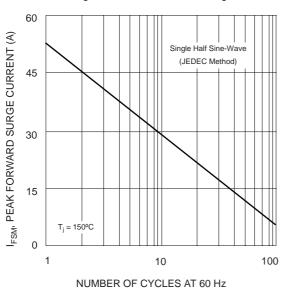
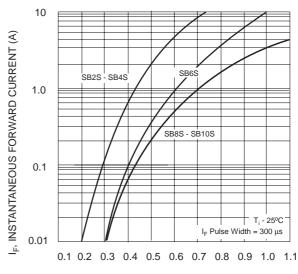


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current



 ${
m V_{F}},$ INSTANTANEOUS FWD VOLTAGE (V) Fig. 2 Typ. Forward Characteristics

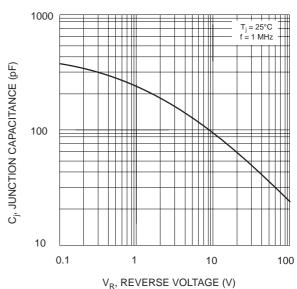
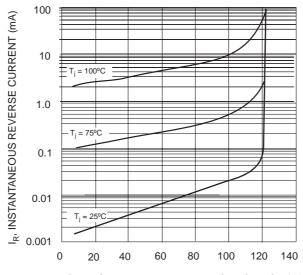


Fig. 4 Typical Junction Capacitance

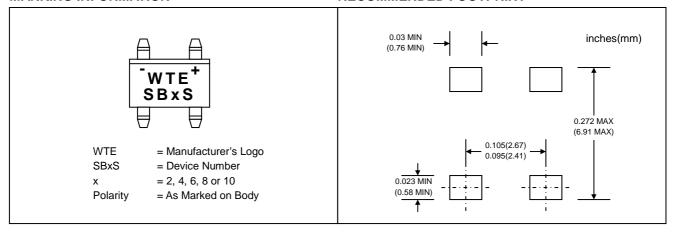


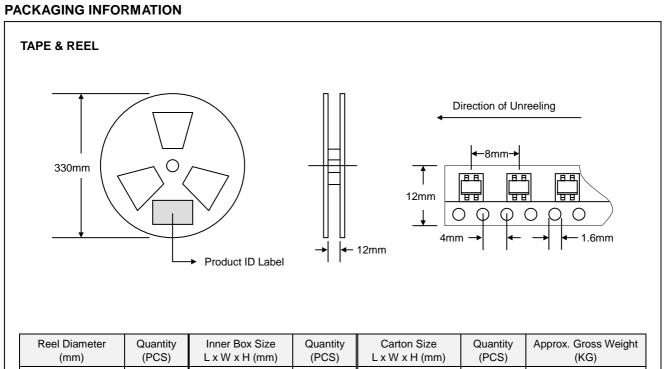
PERCENT OF RATED PEAK REVERSE VOLTAGE (%) Fig. 5 Typical Reverse Characteristics

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MARKING INFORMATION

RECOMMENDED FOOTPRINT





Reel Diameter (mm)	Quantity (PCS)	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
330	3,000	340 x 337 x 45	6,000	370 x 370 x 420	48,000	15.0

Note: 1. Paper reel, white or gray color.
2. Components are packed in accordance with EIA standard 481-1 and 481-2.

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ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
SB2S-T3	Mini Bridge SMD	3000/Tape & Reel
SB4S-T3	Mini Bridge SMD	3000/Tape & Reel
SB6S-T3	Mini Bridge SMD	3000/Tape & Reel
SB8S-T3	Mini Bridge SMD	3000/Tape & Reel
SB10S-T3	Mini Bridge SMD	3000/Tape & Reel

- 1.
- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

 To order Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, SB2S-T3-LF. 2.

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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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