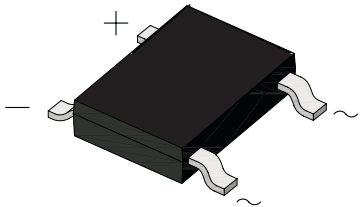
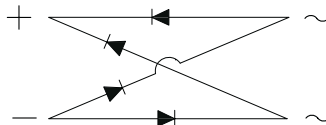




0.5 Amp. Miniature Single Phase Glass Passivated Surface Mount Bridge Rectifier

<p>TO-269AA (MBS)</p>  	<p>Voltage 600 V to 1000 V</p>	<p>Current 0.5 A</p>	
	<p>FEATURES</p> <ul style="list-style-type: none"> • Saves space on printed circuit boards • Ideal for automated placement • High surge current capability • Solder dip 260°C, 10s • AEC-Q101 qualified • Component in accordance to RoHS 2011/65/EU and WEEE 2002/96/EC • Meets MSL level 1, per J-STD-020, LF maximum peak of 260°C 		  RoHS COMPLIANT
	<p>MECHANICAL DATA</p> <ul style="list-style-type: none"> • Case: TO-269AA (MBS). Epoxy meets UL 94V-0 flammability rating. • Polarity: As marked on body. • Terminals: Matte tin plated leads, solderable per MIL-STD-750 Method 2026, J-STD-002 and JESD22-B102. Consumer grade, meets JESD 201 class 1A whisker test. 		
	<p>TYPICAL APPLICATIONS Used in general purpose ac-to-dc bridge full wave rectification for power supply, lighting ballaster, Battery charger, home appliances, office equipment, and terlecommunication applications.</p>		

Maximun Ratings and Electrical Characteristics at 25°C

		MB6SA	MB8SA	MB10SA
Marking Code		MB6	MB8	MB10
V_{RRM}	Maximum Recurrent Peak Reverse Voltage (V)	600	800	1000
V_{RMS}	Maximum RMS Voltage (V)	420	560	700
V_{DC}	Maximum DC Blocking Voltage (V)	600	800	1000
$I_{F(AV)}$	Maximum Average Forward Output Current (see Fig. 1) On glass-epoxy P.C.B. On aluminum substrate		0.5 A ⁽¹⁾ 0.8 A ⁽²⁾	
I_{FSM}	Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)		30 A	
V_F	Maximum Instantaneous Forward Voltage @ 0.5 A		1.0 V	
I_R	Maximum DC Reverse Current @ Ta = 25 °C at Rated DC Blocking Voltage @ Ta = 125 °C		5 µA 100 µA	
C_j	Typical Junction Capacitance Per Leg		13 pF	
$R_{th(j-a)}$ $R_{th(j-a)}$ $R_{th(j-l)}$	Typical Thermal Resistance Per Leg		85 °C/W ⁽¹⁾ 70 °C/W ⁽²⁾ 20 °C/W ⁽¹⁾	
T_j	Operating Temperature Range		-55 to + 150 °C	
T_{stg}	Storage Temperature Range		-55 to + 150 °C	

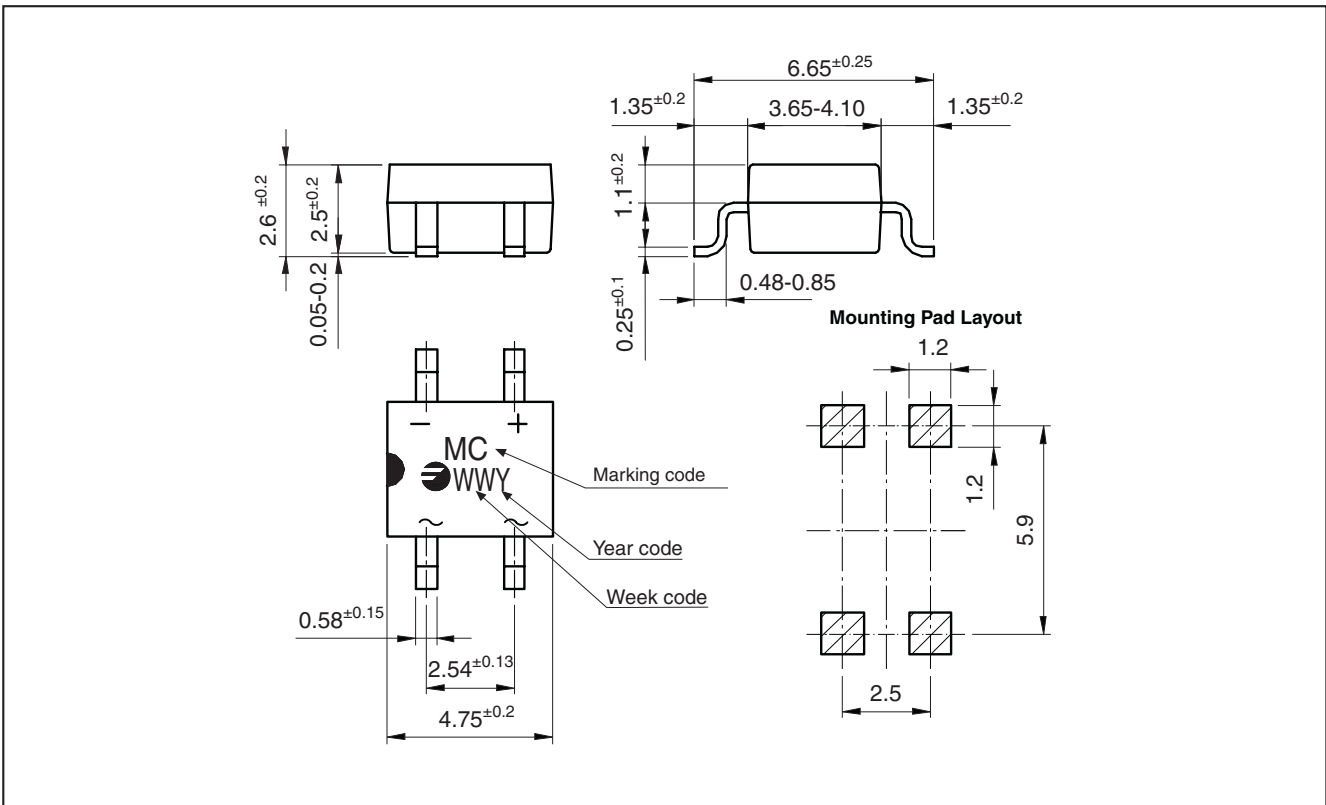
Notes: 1. On glass epoxy P.C.B. mounted 1.3x1.3mm pads
2. On aluminium substrate P.C.B. which an area of 20x20mm mounted on 1.3x1.3mm solder pad

0.5 Amp. Miniature Single Phase Glass Passivated Surface Mount Bridge Rectifier

Ordering information

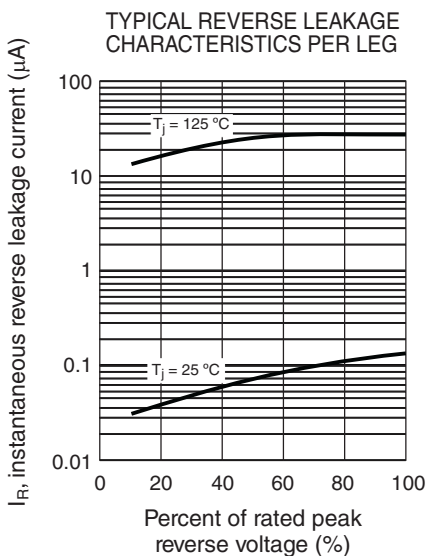
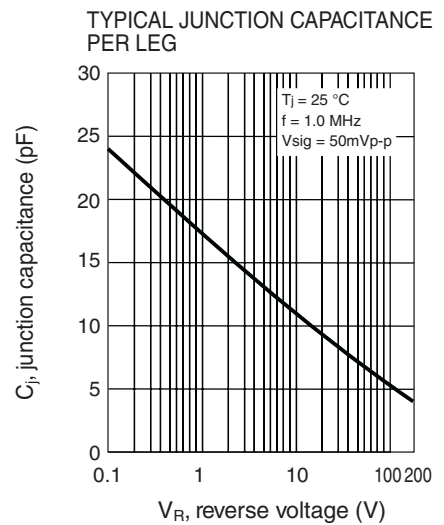
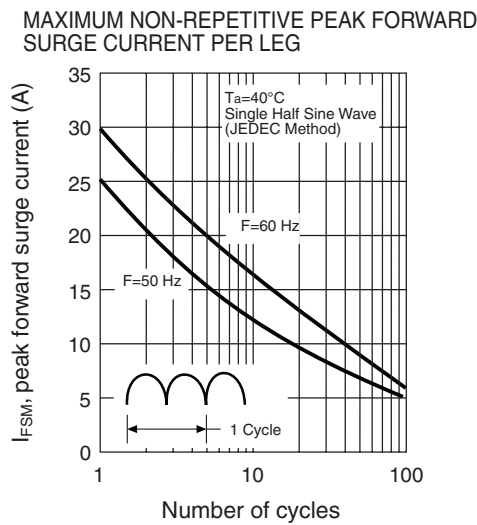
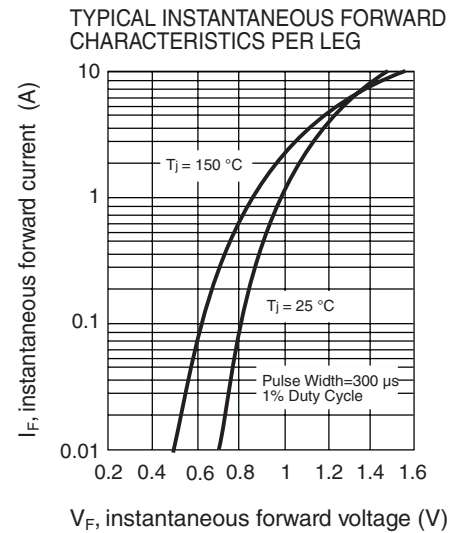
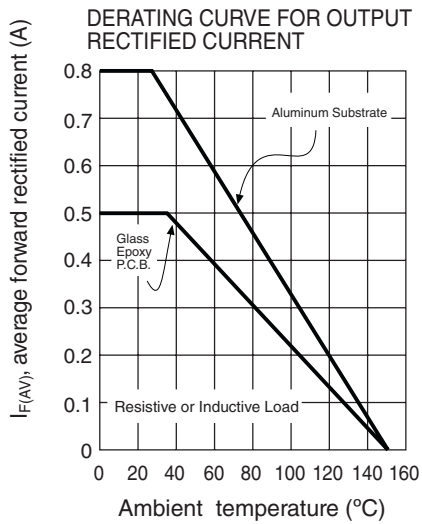
PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
MB6SA TR	TR	13" diameter tape and reel	3,000	0.22

Package Outline Dimensions: (mm) TO-269AA (MBS)

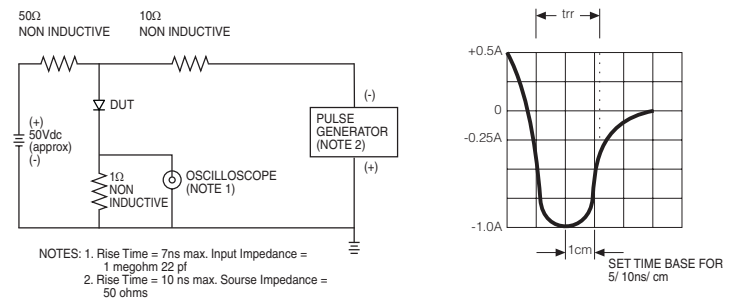


0.5 Amp. Miniature Single Phase Glass Passivated Surface Mount Bridge Rectifier

Ratings and Characteristics (Ta 25 °C unless otherwise noted)



REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



0.5 Amp. Miniature Single Phase Glass Passivated Surface Mount Bridge Rectifier**Revision History**

Date	Revision	Description of Changes
14-Jan-2012	0	Original Data Sheet
01-Dec-2014	1	Modified Package Outline Dimensions
03-Feb-2015	2	Modified Package Outline Dimensions
20-May-2016	3	Updated VF specification

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