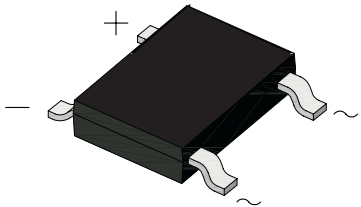
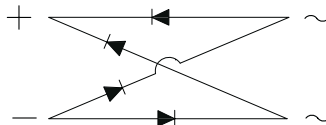




0.8 Amp. Miniature Single Phase Glass Passivated Surface Mount Bridge Rectifier

<p>TO-269AA (MBS)</p>  	<p>Voltage 600 V to 1000 V</p>	<p>Current 0.8 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 • Halogen-free available according to IEC 61249-2-21 definition 		  RoHS <small>COMPLIANT</small> HALOGEN FREE
	<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

		1SMZG06GP	1SMZG10GP
Marking Code		Z6	Z10
Halogen Free Marking Code		Z7	Z14
V_{RRM}	Peak Recurrent Reverse Voltage (V)	600	1000
V_{RMS}	Maximum RMS Voltage (V)	420	700
$I_{F(AV)}$	Maximum Average Forward Rectified Current		
	On Glass-epoxy P.C.B. On Aluminum Substrate	0.5 A 0.8 A	
I_{FSM}	8.3 ms. Peak Forward Surge	35 A	
T_j	Operating Temperature Range	-40 to +150 °C	
T_{stg}	Storage Temperature Range	-40 to +150 °C	

Electrical Characteristics at Tamb = 25 °C

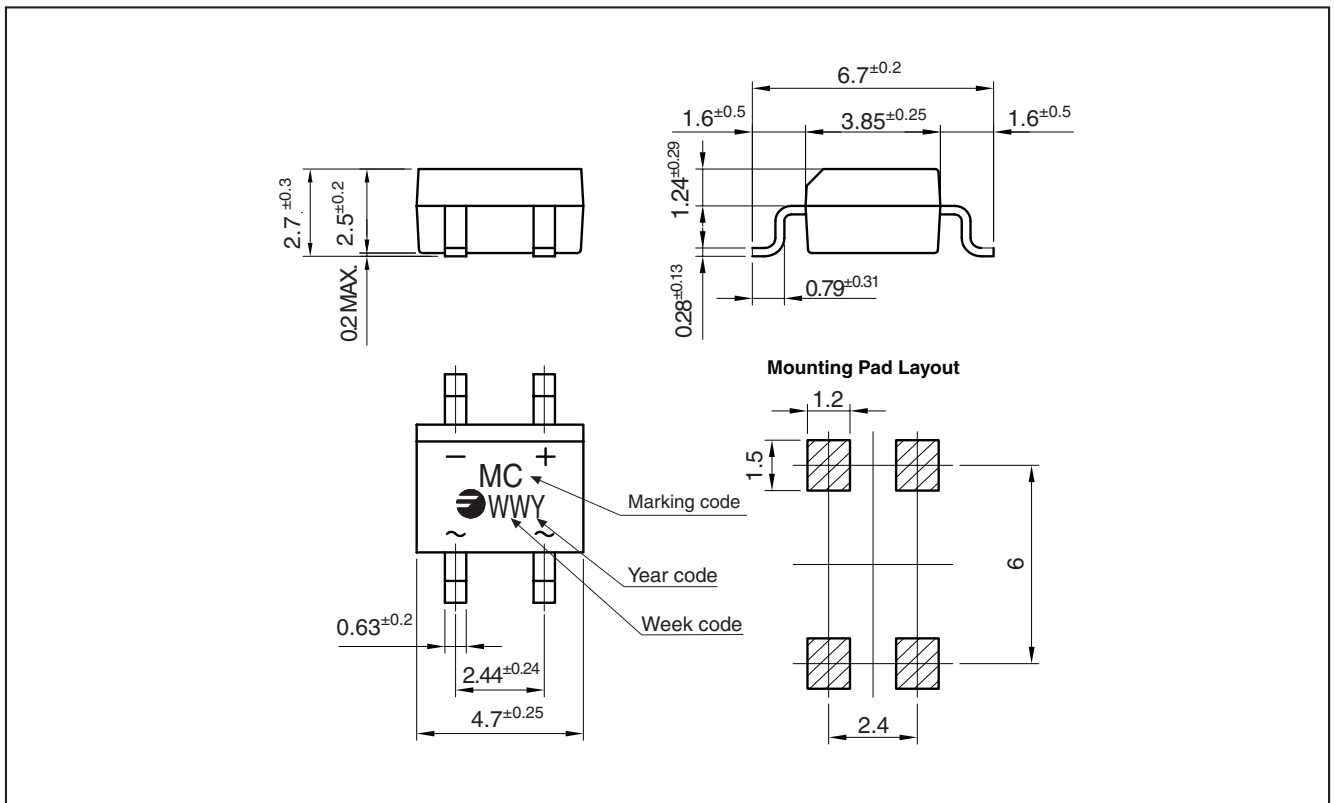
V_F	Maximun Instantaneous Forward Voltage @ 0.8 A	1.15 V
I_R	Maximum DC Reverse Current @TA = 25 °C	5.0 µA
	at Rated DC Blocking Voltage @TA = 125 °C	100 µA

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

Ordering information

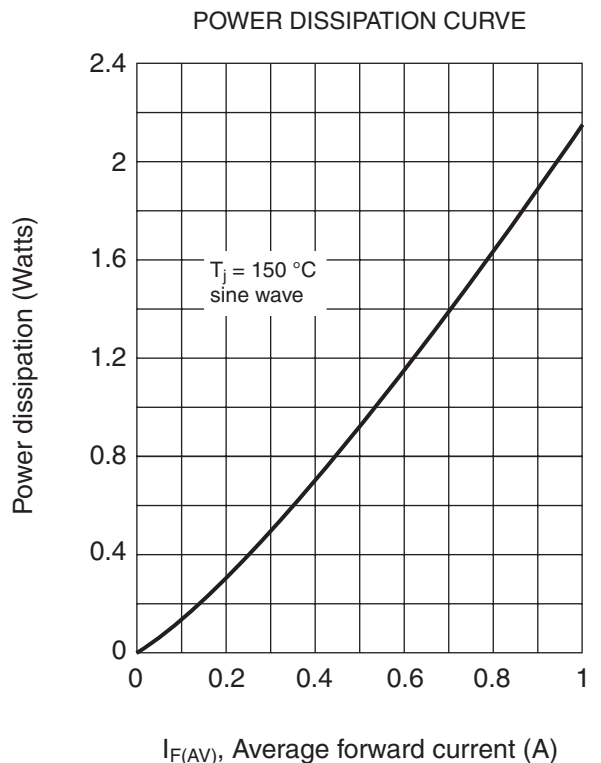
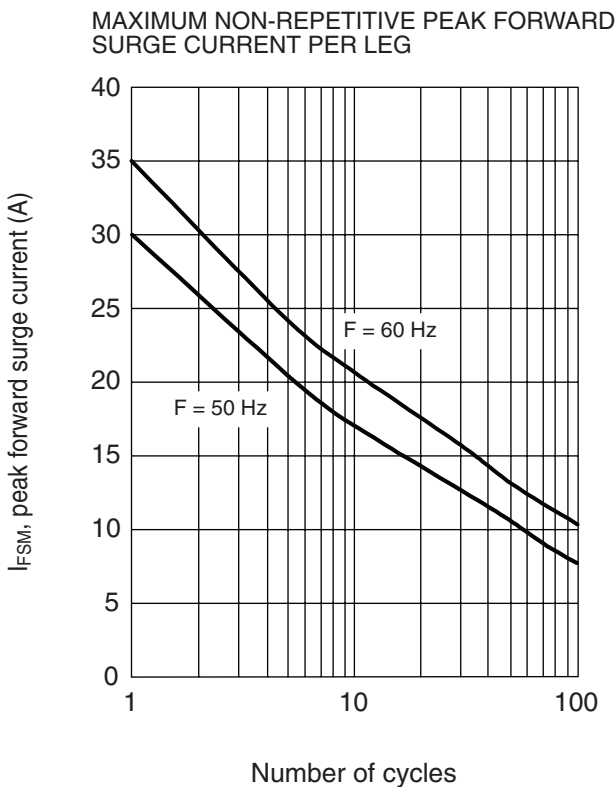
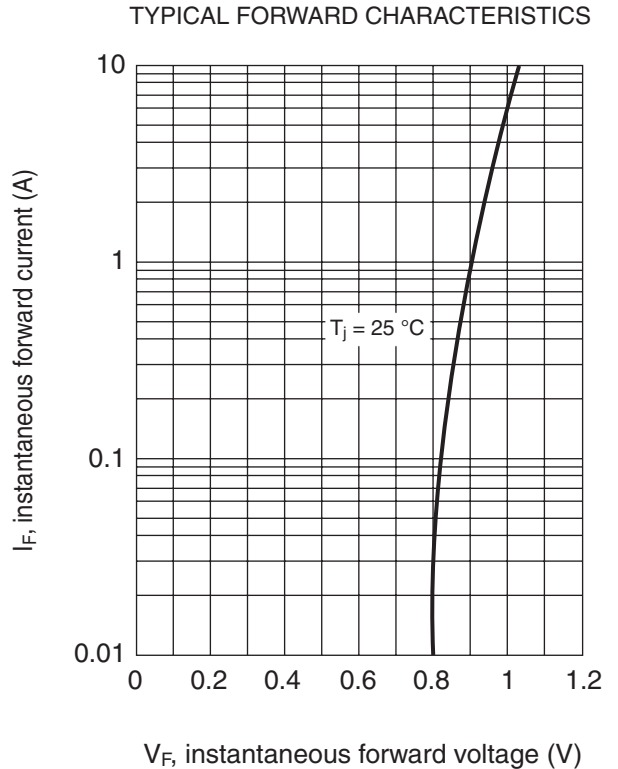
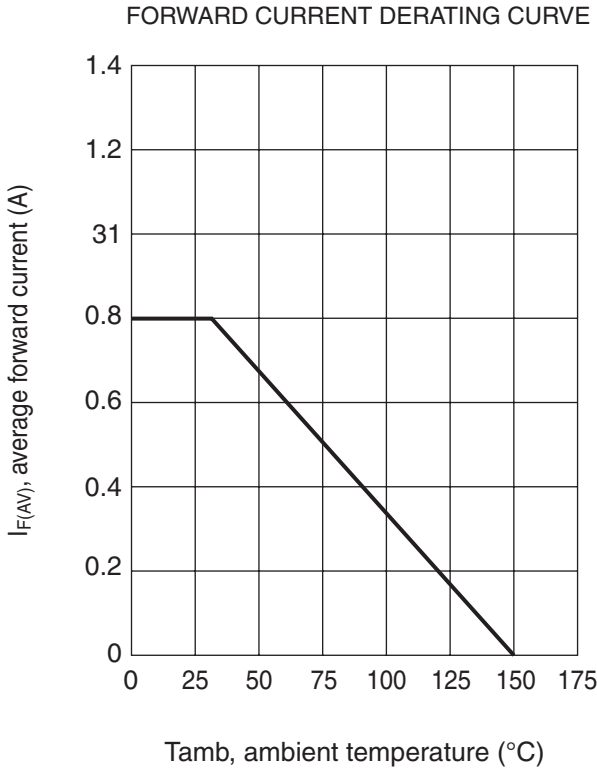
PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
1SMZG06GP TR	TR	13" diameter tape and reel	3,000	0.22
1SMZG06GP HF TR	TR	13" diameter tape and reel	3,000	0.22

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



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

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



0.8 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
10-Mar-2017	3	Modified Package Outline Dimensions

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