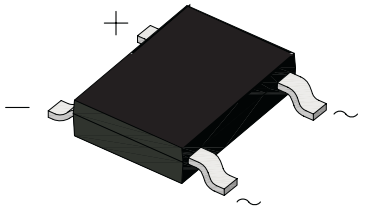
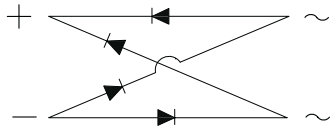
0.8 Amp. Miniature Single Phase Glass Passivated Fast Recovery Surface Mount Bridge Rectifier

TO-269AA (MBS)





Voltage	Current
200 V to 600 V	0.8 A

FEATURES

- Saves space on printed circuit boards
- Ideal for automated placement
- High surge current capability
- Fast recovery, low switching loss
- 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

Pb

e3

RoHS COMPLIANT

MECHANICAL DATA

- **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 1 whisker test.

TYPICAL APPLICATIONS

Used in general purpose ac-to-dc bridge full wave rectification for power supply, lighting ballaster, Battery charger, home appliances, office equipement, and terlecommunication applications.

Maximun Ratings and Electrical Characteristics at 25°C

		RMB2S	RMB4S	RMB6S
Marking Code		RMB2	RMB4	RMB6
V_{RRM}	Maximum Recurrent Peak Reverse Voltage (V)	200	400	600
V_{RMS}	Maximum RMS Voltage (V)	140	280	420
V_{DC}	Maximum DC Blocking Voltage (V)	200	400	600
$I_{F(AV)}$	Maximum Average Forward Output Current On glass-epoxy P.C.B. On aluminum substrate	0.5 A 0.8 A		
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 @ 0.4 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		
T_{rr}	Maximum Reverse Recovery Time from I_F = 0.5 A, I_R =1 A, I_{RR} = 0.25 A	150 ns		
C_j	Typical Junction Capacitance Per Leg	13 pF		
$R_{th\ (j-a)}$	Typical Thermal Resistance Per Leg	85 °C/W		
T_j	Operating Temperature Range	-55 to + 150 °C		
T_{stg}	Storage Temperature Range	-55 to + 150 °C		

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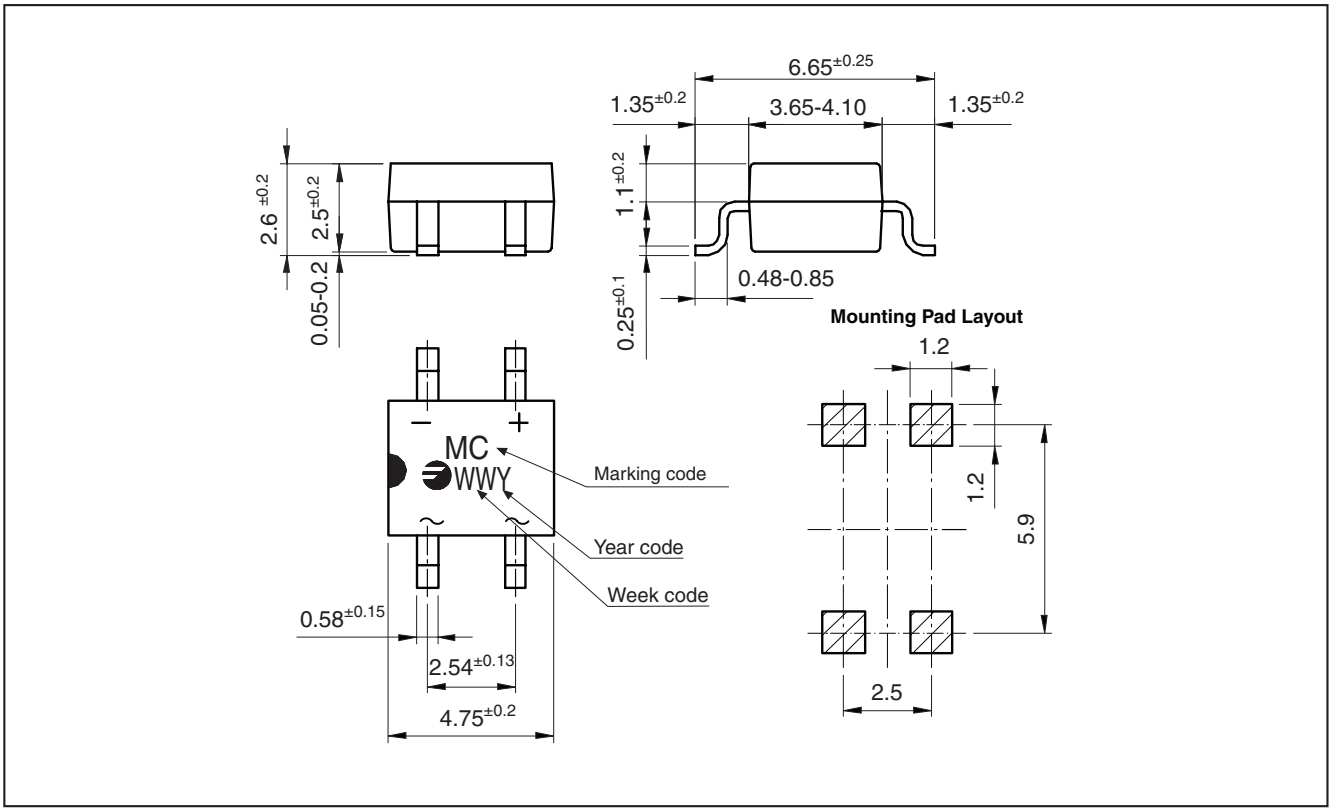
Ordering information

PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
RMB6S TR	TR	13" diameter tape and reel	3,000	0.22

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



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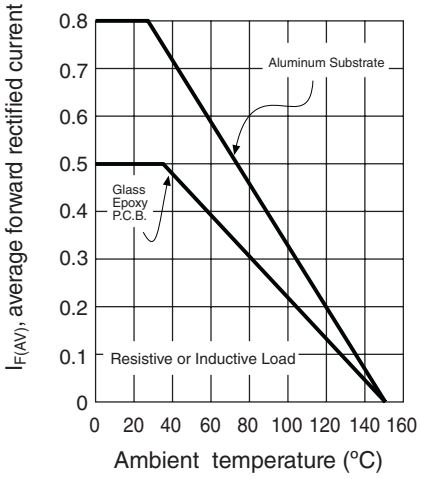
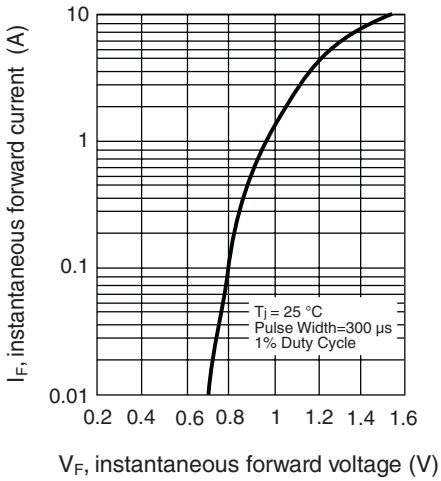
Ratings and Characteristics (Ta 25 ºC unless otherwise noted)

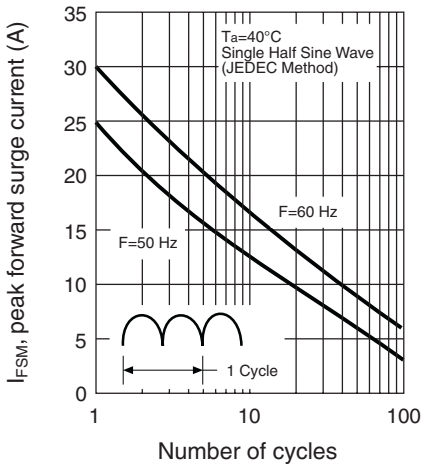
DERATING CURVE FOR OUTPUT RECTIFIED CURRENT



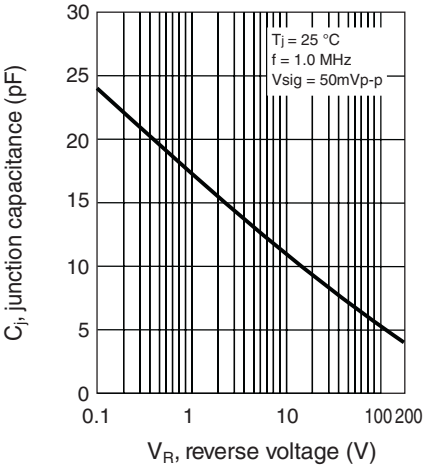
TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG



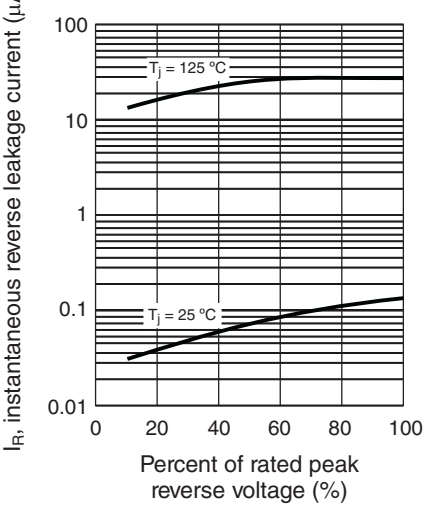
MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG



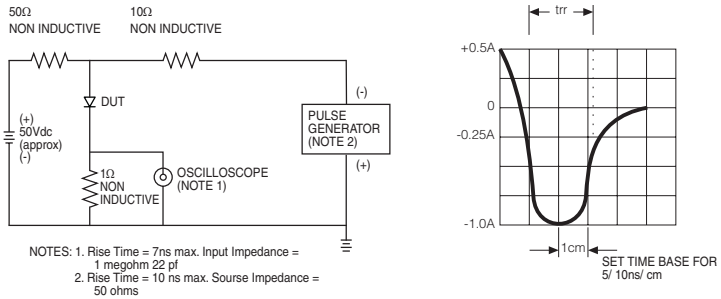
TYPICAL JUNCTION CAPACITANCE PER LEG



TYPICAL REVERSE LEAKAGE CHARACTERISTICS PER LEG



REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



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Revision History

Date	Revision	Description of Changes
11-Jun-2009	0	Original Data Sheet
14-Sep-2013	1	Identification Change
28-Nov-2013	2	Changed: class, from 2 to1 and Outline dimensions
18-Dec-2014	3	Modified Package Outline Dimensions
03-Feb-2015	4	Modified Package Outline Dimensions

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