



Miniature Glass Passivated Fast Recovery Surface Mount Bridge Rectifiers

FEATURES

- Ideal for automated placement
- Reliable low cost construction utilizing molded plastic technique
- High surge current capability
- Small size, simple installation
- Moisture sensitivity level: level 1, per J-STD-020
- UL Recognized File # E-326243
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition
- AEC-Q101 Qualified



Case: TO-269AA (MBS)

Molding compound, UL flammability classification rating 94V-0 Packing code with suffix "G" means green compound (halogen-free)

Terminal: Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 2 whisker test **Polarity:** Polarity as marked on the body

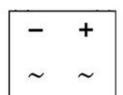
Weight: 0.12 g (approximately)

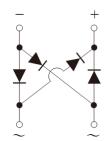


TO-269AA (MBS)









MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)					
PARAMETER	SYMBOL	RMB2S	RMB4S	RMB6S	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	200	400	600	V
Maximum RMS voltage	V_{RMS}	140	280	420	V
Maximum DC blocking voltage	V_{DC}	200	400	600	V
Maximum average forward current 60Hz sine wave resistance load On glass-expoxy P.C.B. On aluminum substrate	I _{F(AV)}	0.5 0.8		A	
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	30		А	
Rating for fusing (t<8.3ms)	l ² t	3.74		A ² s	
Maximum instantaneous forward voltage (Note 1) I_F = 0.4	V _F	1.00			V
	I _R	5 100		μA	
Maximum reverse recovery time (Note 2)	trr	150		ns	
Typical junction capacitance per leg	CJ	13		pF	
Typical thermal resistance	$R_{\theta JA}$	85		°C/W	
Operating junction temperature range	T _J	- 55 to +150			°C
Storage temperature range	T _{STG}	- 55 to +150			°C

Note 1: Pulse Test with PW=300µs, 1% Duty Cycle

Note 2: Reverse Recovery Test Condition: I_F =0.5A, I_R =1.0A, I_{RR} =0.25A



ORDERING INFORMATION				
PART NO.	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING
RMBxS (Note 1,2)	RC	G	MBS	3,000 / 13" Paper reel

Note 1: "x" defines voltage from 200V (RMB2S) to 600V (RMB6S)

Note 2: Whole series with green compound

EXAMPLE				
PREFERRED P/N	PART NO.	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
RMB2S RCG	RMB2S	RC	G	AEC-Q101 qualified Green compound

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)



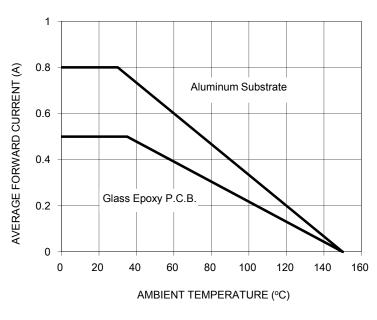


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

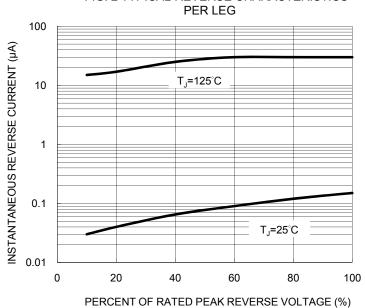


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

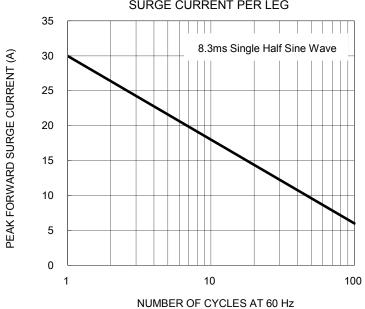


FIG. 4 TYPICAL FORWARD CHARACTERISTICS

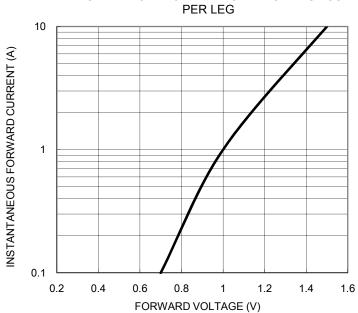
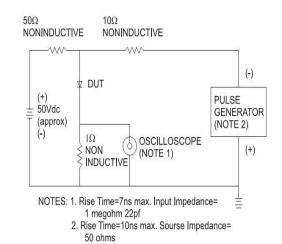
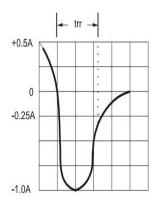




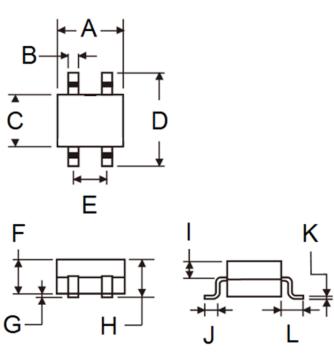
FIG. 5 TYPICAL JUNCTION CAPACITANCE PER LEG 30 25 10 10 f=1.0MHz Vsig=50mVp-p 0 0.1 1 1 10 100 REVERSE VOLTAGE (V)

FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



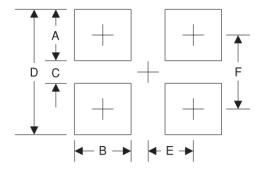


PACKAGE OUTLINE DIMENSIONS TO-269AA (MBS)



DIM.	Unit	(mm)	Unit (inch)		
DIIVI.	Min	Max	Min	Max	
Α	4.50	4.90	0.177	0.193	
В	0.56	0.84	0.022	0.033	
С	3.60	5.00	0.142	0.197	
D	-	6.90	-	0.272	
Е	2.20	2.60	0.087	0.102	
F	2.30	2.70	0.091	0.106	
G	-	0.20	-	0.008	
Н	-	2.90	-	0.114	
I	0.95	1.53	0.037	0.060	
J	0.70	1.10	0.028	0.043	
K	0.15	0.35	0.006	0.014	
L	1.10	2.12	0.043	0.083	

SUGGESTED PAD LAYOUT



Symbol	Unit (mm)	Unit (inch)
Α	1.7	0.067
В	0.9	0.035
С	4.4	0.173
D	8.1	0.319
E	1.3	0.051
F	6.3	0.248

MARKING DIAGRAM



P/N = Specific Device Code

YW = Date Code

F = Factory Code





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RMB2S RMB4S RMB6S RMB6SHRCG RMB2SHRC RMB4SRCG RMB4SHRCG RMB2SHRCG RMB6SHRCG RMB4SHRCG RMB2S RCG