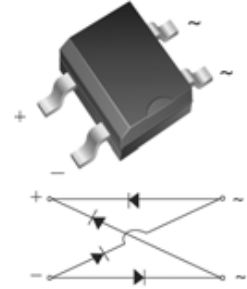


# RMB2S thru RMB10S

Glass Passivated Fast Recovery Surface Mount Bridge Rectifier  
 Reverse Voltage 200 to 400 Volts Forward Current 0.5 Ampere

## Features

- ◆ Plastic package has UL Flammability Classification 94V-0
- ◆ Glass passivated chip junctions
- ◆ Space saving
- ◆ Fast recovery, low switching loss
- ◆ High temperature soldering guaranteed:  
 260°C/10 seconds at 5 lbs. (2.3kg) tension



Package: TO-269AA(MBS)

## Mechanical Data

- ◆ Case: Molded plastic body over passivated junctions
- ◆ Terminals: Plated leads solderable per MIL-STD-750, Method 2026
- ◆ Polarity: Polarity symbols marked on body
- ◆ Mounting Position: Any
- ◆ Weight: 0.078 oz, 0.22g

## Maximum Ratings & Electrical Characteristics

( $T_A=25^\circ\text{C}$  unless otherwise noted)

Parameter	Symbol	RMB2S	RMB4S	RMB6S	RMB8S	RMB10S	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	200	400	600	800	1000	V
Maximum Average Forward Output Current (see Fig.1) on glass-epoxy P.C.B on aluminum substrate	$I_{F(AV)}$	0.5 <sup>(1)</sup> 0.8 <sup>(2)</sup>					A
Peak Forward Surge Current 8.3 MS Single HALF Sine-Wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	30					A
Rating for fusig (t<8.3ms)	$I^2t$	5					A <sup>2</sup> sec
Maximum Instantaneous Forward Voltage Drop per eg at 0.4A	$V_F$	1.30					V
Maximum DC Reverse Current at Rated DC Blocking Voltage per Leg	$I_R$	5 100					$\mu\text{A}$
Maximum Reverse Recovery Time at $I_F=0.5\text{A}, I_R=1.0\text{A}, I_{rr}=0.25\text{A}$	$T_{rr}$	150		250		500	nS
Typical Thermal Resistance per Leg	$R_{\theta JA}$ $R_{\theta JA}$ $R_{\theta JL}$	85 <sup>(1)</sup> 70 <sup>(2)</sup> 20 <sup>(1)</sup>					$^\circ\text{C/W}$
Typical Junction Capacitance per at 4.0V, 1.0MHz	$C_J$	13					pF
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	-55 to +150					$^\circ\text{C}$

**Notes:** 1. On glass epoxy P.C.B. mounted on 0.05×0.05"(1.3×1.3mm) pads

2. On aluminum substrate P.C.B. with an area of 0.8×0.8" (20×20mm) mounted on 0.05×0.05"(1.3×1.3mm) solder pad

## Ratings and Characteristics Curves

( $T_A = 25^\circ\text{C}$  unless otherwise noted)

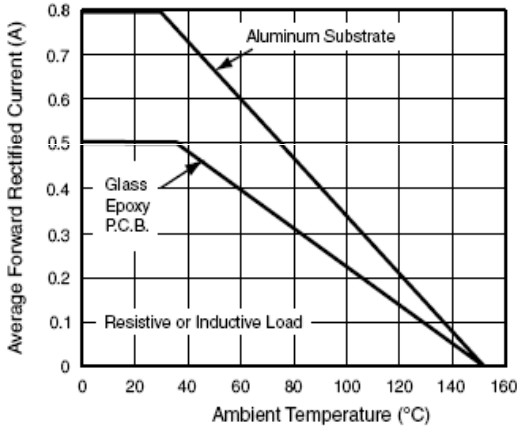


Figure 1. Derating Curve for Output Rectified Current

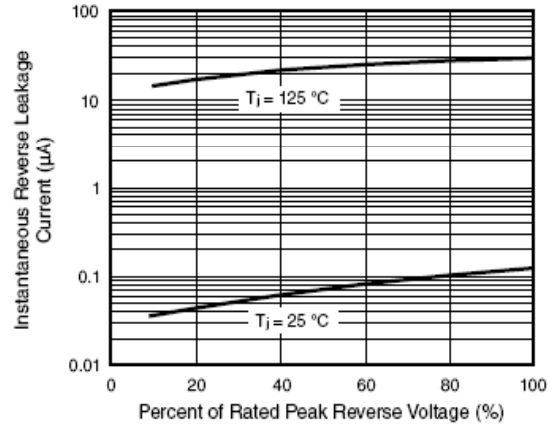


Figure 4. Typical Reverse Leakage Characteristics Per Leg

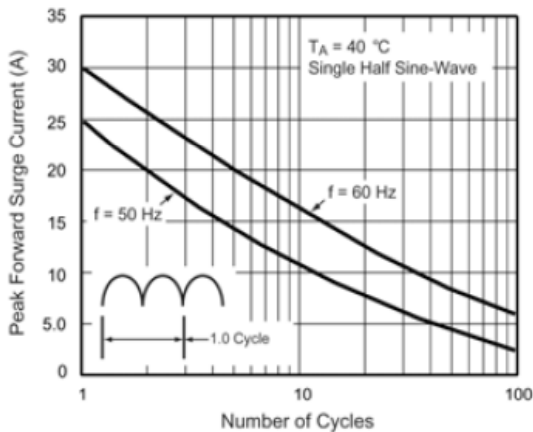


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Leg

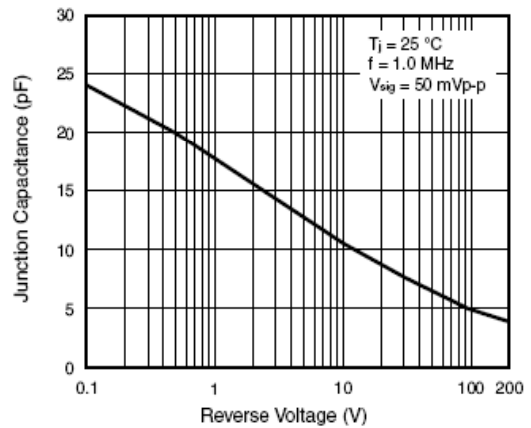


Figure 5. Typical Junction Capacitance Per Leg

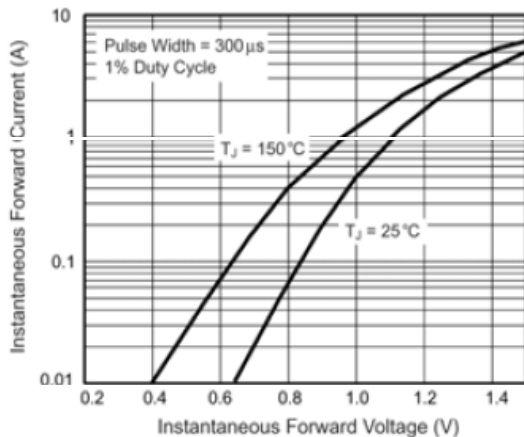
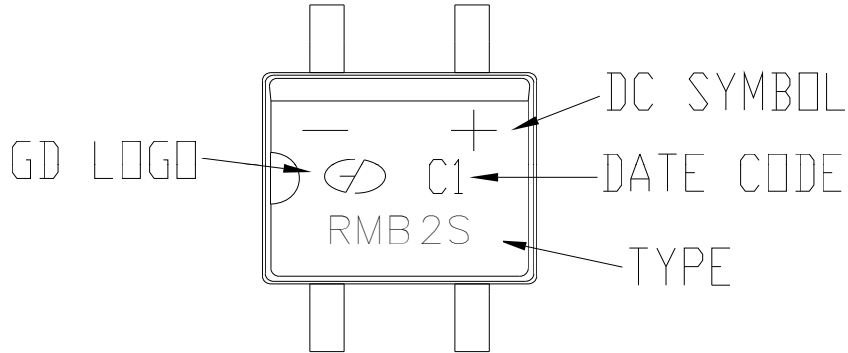


Figure 3. Typical Instantaneous Forward Characteristics Per Leg

# RMB2S thru RMB10S

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## Marking



DATE CODE

Year	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Code	9	A	B	C	D	E	F	G	H	J	K	0
Month	1	2	3	4	5	6	7	8	9	10	11	12
Code	1	2	3	4	5	6	7	8	9	O	N	D

## Package Outline Dimensions

