RMB2M - RMB10M

Glass Passivated Fast Recovery Bridge Rectifier

Reverse Voltage 200 to 1000 Volts Forward Current 0.5 Ampere

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junctions
- Fast recovery, low switching loss
- High temperature soldering guaranteed:260°C/10 seconds
- Long pointed leads: 3.70mm-4.05mm

Package: MBM

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°C unless otherwise noted)

Parameter	Symbol	RMB2M	RMB4M	RMB6M	RMB8M	RMB10M	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(1) 0.8(2)					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^2sec
Maximum instantaneous forward voltage drop per leg at 0.4A	V_F	1.30					V
Maximum DC reverse current at T_A=25°C rated DC blocking voltage per leg T_A=125°C	I_R	5 100					μA
Maximum reverse recovery time at I_F=0.5A,I_R=1.0A,Irr=0.25A	Trr	150		250	500		nS
Typical thermal resistance per leg	$R_{\theta JA}$ $R_{\theta JA}$ $R_{\theta JL}$	85(1) 70(2) 20(1)					°C/W
Typical junction capacitance per at 4.0V,1.0MHz	Cj	13					pF
Operating junction and storage temperature range	T_J,T_{STG}	-55 to +150					°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.whth 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°C unless otherwise noted)

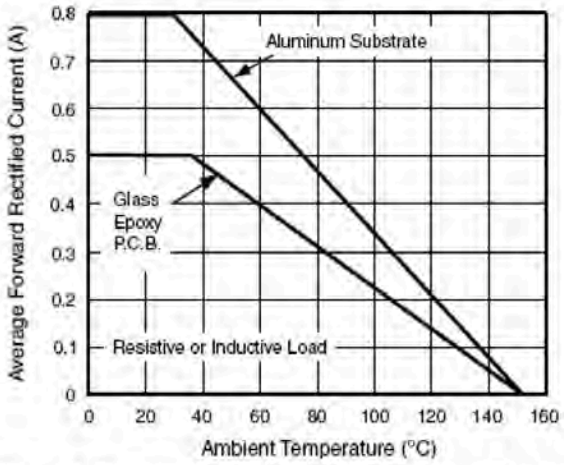


Figure 1. Derating Curve for Output Rectified Current

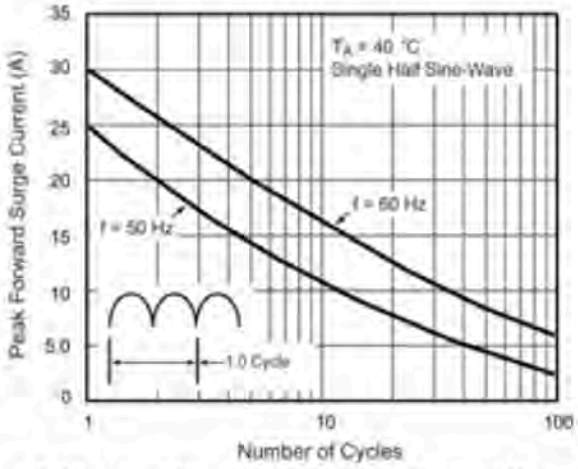


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Leg

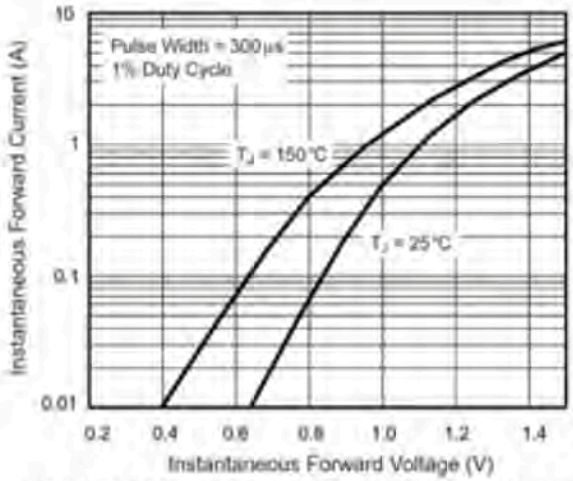


Figure 3. Typical Instantaneous Forward Characteristics Per Leg

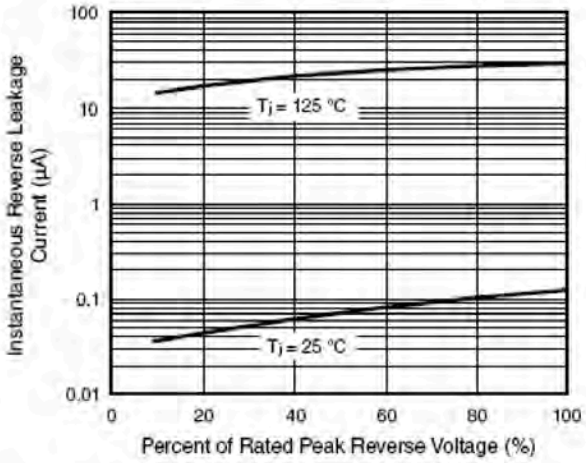


Figure 4. Typical Reverse Leakage Characteristics Per Leg

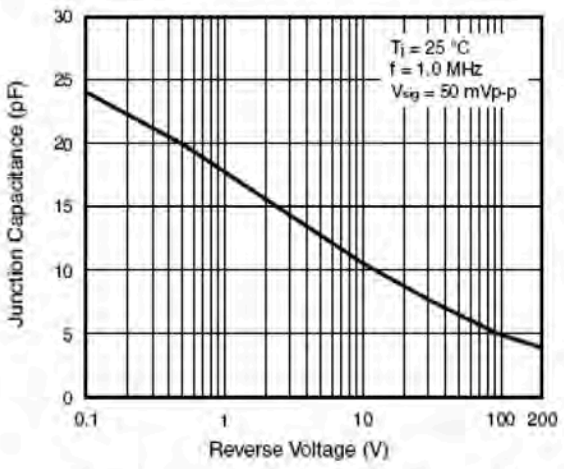
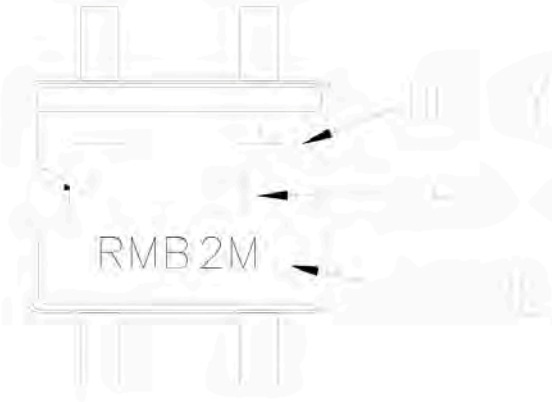


Figure 5. Typical Junction Capacitance Per Leg

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

Case Style MBM