



Micro Commercial Components

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RMB2S THRU RMB6S

Features

- Surface Mount Package
- Glass Passivated Diode Construction
- Fast Recovery, Low Switching Loss
- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
RMB2S	RB2S	200V	140V	200V
RMB4S	RB4S	400V	280V	400V
RMB6S	RB6S	600V	420V	600V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	0.5A ⁽¹⁾ 0.8A ⁽²⁾	$T_A = 30^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	30A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1.25V	$I_{FM} = 0.4\text{A};$ $T_A = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5.0µA 100µA	$T_A = 25^\circ\text{C}$ $T_A = 125^\circ\text{C}$
Typical Thermal Resistance Per Leg	$R_{\theta JA}$ $R_{\theta JA}$ $R_{\theta JL}$	85°C/W ⁽¹⁾ 70°C/W ⁽²⁾ 20°C/W ⁽¹⁾	PC board with 12mm ² copper pads
Typical Junction Capacitance	C_J	13pF	Measured at 1.0MHz, $V_R=4.0\text{V}$
Maximum Reverse Recovery Time	t_{rr}	150ns 250ns	$I_F=0.5\text{A}, I_R=1.0\text{A},$ $I_{rr}=0.25\text{A}$
Rating For Fusing	I^2t	5.0A ² s	$t < 8.30\text{ms}$

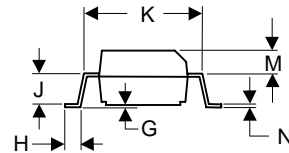
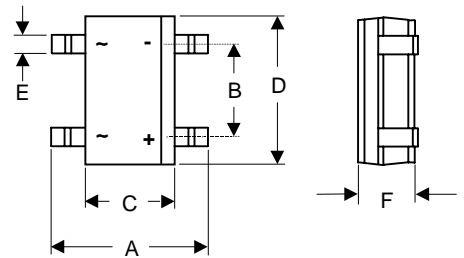
(1) On glass epoxy P.C.B. mounted on 0.05 x 0.05"(1.3 x 1.3mm) pads

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

Notes:1.High Temperature Solder Exemption Applied,see EU Directive Annex Notes 7.

1/2 Amp Fast Recovery Glass Passivated Bridge Rectifier 200 to 600 Volts

MBS-1



DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.252	.272	6.40	6.90	
B	.095	.106	2.41	2.70	
C	.150	.165	3.80	4.20	
D	.179	.195	4.55	4.95	
E	.019	.031	0.50	0.80	
F	.090	.106	2.30	2.70	
G	.004	.008	0.10	0.20	
H	.027	.043	0.70	1.10	
J	.058	.062	1.47	1.57	
K	.195	.205	4.95	5.21	
M	.039	.049	0.99	1.24	
N	.008	.014	0.15	0.35	

Fig. 1 – Maximum Forward Current Derating Curve

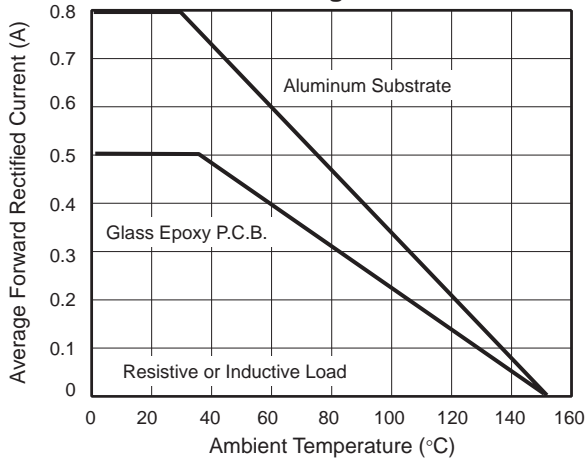


Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current

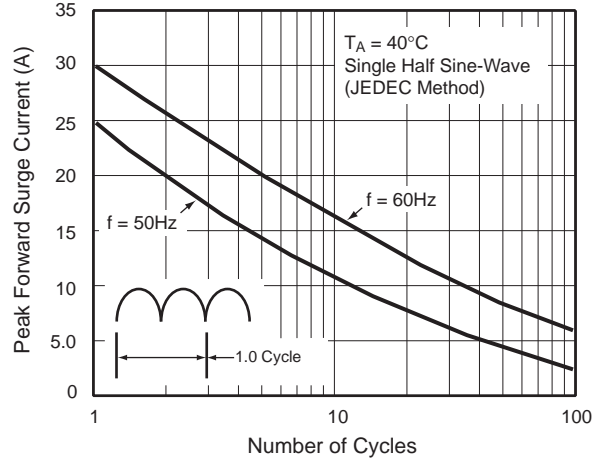


Fig. 3 – Typical Instantaneous Forward Characteristics

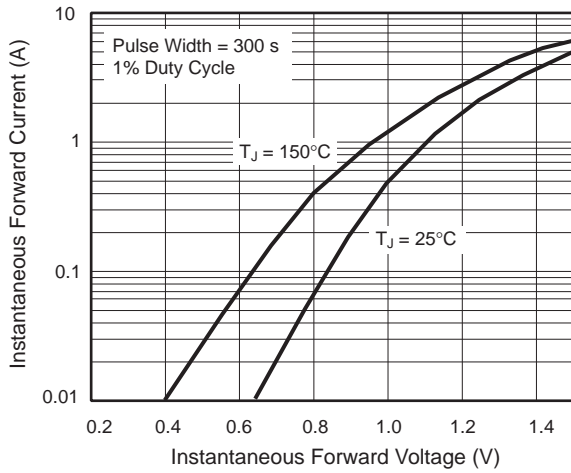


Fig. 4 – Typical Reverse Leakage Characteristics Per Leg

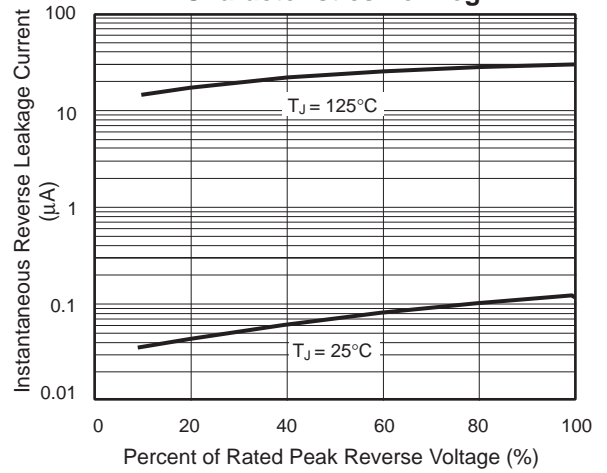
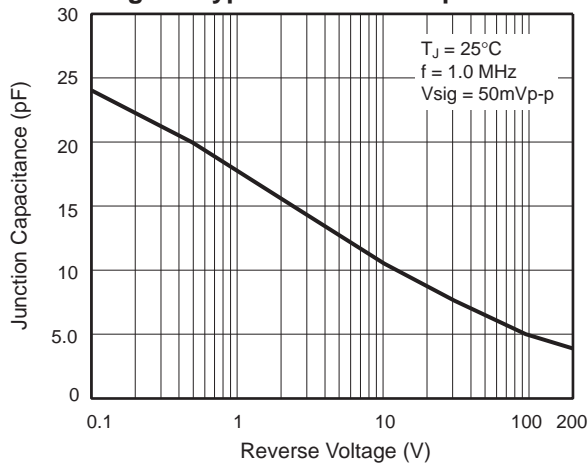


Fig. 5 – Typical Junction Capacitance





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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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