



RMB2F-RMB6F

SURFACE MOUNT BRIDGE RECTIFIERS

Major Ratings and Characteristics

$I_{F(AV)}$	0.5A , 0.8A
V_{RRM}	200-600V
I_{FSM}	30 A
I_R	5.0 μ A
t_{rr}	150nS,250nS
V_F	1.25V
T_J max.	150 °C

Features

- Low profile space
- Ideal for automated placement
- Glass passivated chip junction
- Low forward voltage drop
- Low leakage current
- High forward surge capability
- High temperature soldering:
260°C/10 seconds at terminals
- Component in accordance to
RoHS 2002/95/1 and WEEE 2002/96/EC

Mechanical Data

- Case: MBF Molded plastic
over glass passivated chip
- Terminals: Solder plated, solderable per
J-STD-002B and JESD22-B102D
- Polarity: Polarity symbols marked on body

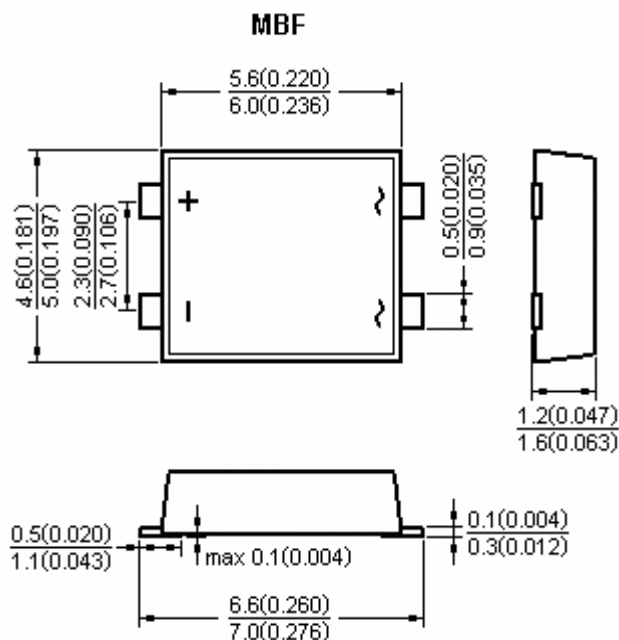
Maximum Ratings & Thermal Characteristics & Electrical Characteristics

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

	Symbol	RMB2F	RMB4F	RMB6F	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 output rectified current at T _A =30℃ -on glass-epoxy P.C.B (NOTE 1) -on aluminum substrate (NOTE 2)	I _{F(AV)}	0.5 0.8			A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load(JEDEC Method)	I _{FSM}	30			A
Maximum instantaneous forward voltage drop per leg at 0.4A	V _F	1.25			V
Maximum DC reverse current at T _A = 25 ℃ rated DC blocking voltage per leg T _A = 125℃	I _R	5.0 100			μ A
Maximum reverse recovery time at IF = 0.5 A , IR = 1.0 A , Irr = 0.25 A	t _{rr}	150		250	nS
Typical junction capacitance per leg at 4.0 V ,1MHz	C _J	13			p F
Thermal resistance per leg (NOTE 1) (NOTE 2) (NOTE 1)	R _{θJA}	85			℃/ W
	R _{θJA}	70			
	R _{θJL}	20			
Operating junction and storage temperature range	T _J , T _{STG}	-55 to +150			℃

NOTE1:On glass epoxy P.C.B. mounted on 0.05×0.05" (1.3×1.3mm) pads

NOTE2: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



Dimensions in millimeters and (inches)



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

