



### Major Ratings and Characteristics

$I_{F(AV)}$	1.0A
$V_{RRM}$	200-600V
$I_{FSM}$	30 A
$I_R$	5.0 $\mu$ 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 Date

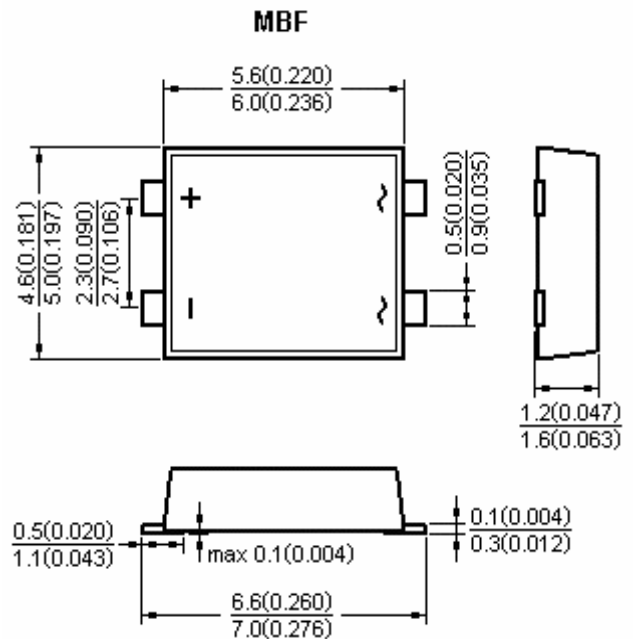
- Case: MBF Molded plastic over glass passivated chip
- Terminals: Solder plated, solderable per J-STD-002B and JESD22-B102D
- Polarity: Polarity symbols marked on body

### Maximum Ratings & Thermal Characteristics & Electrical Characteristics

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

	Symbol	RMB12F	RMB14F	RMB16F	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 $T_A=30\text{ }^\circ\text{C}$	$I_{F(AV)}$	1			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 1.0A	$V_F$	1.25			V
Maximum DC reverse current at rated DC blocking voltage per leg	$I_R$	5.0 100			$\mu$ 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	nS
Thermal resistance per leg (Note:1)	$R_{\theta JA}$	80			$^\circ\text{C/W}$
Operating junction and storage temperature range	$T_J, T_{STG}$	-55 to +150			$^\circ\text{C}$

NOTE1: Units mounted on P.C.B. with 0.05×0.05" (1.3×1.3mm) pads

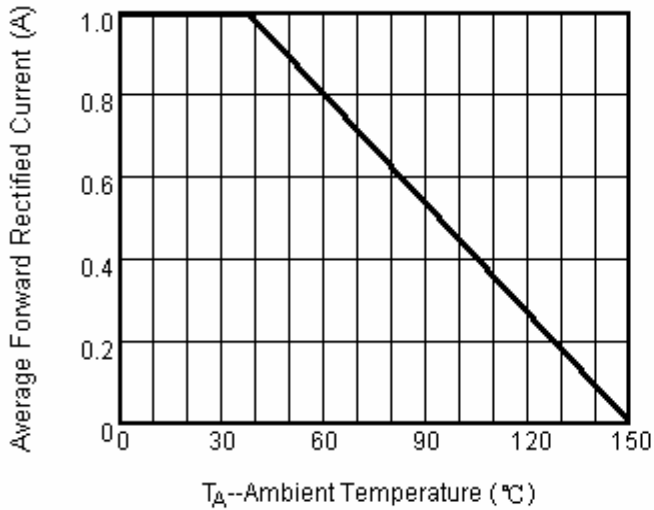


Dimensions in millimeters and (inches)

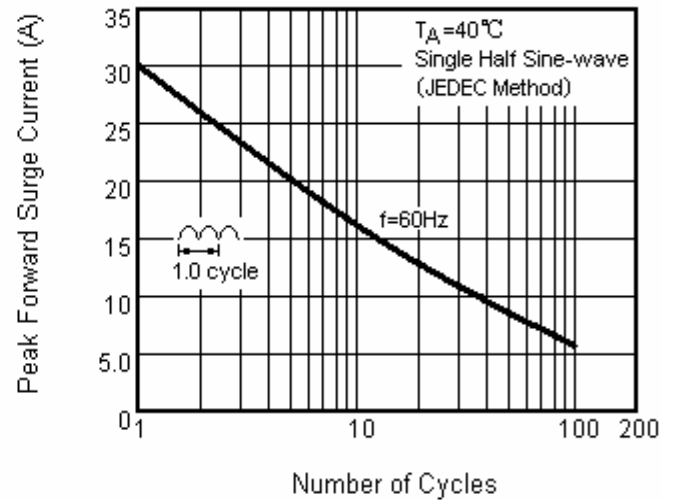


### Characteristic Curves ( $T_A=25^\circ\text{C}$ unless otherwise noted)

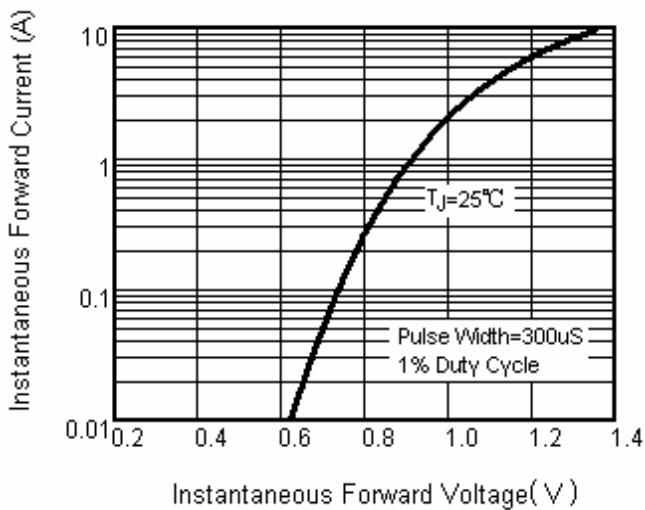
**Fig.1 Derating Curve For Output Rectified Current**



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



**Fig.3 Typical Forward Voltage Characteristics Per Leg**



**Fig.4 Typical Reverse Leakage Characteristics Per Leg**

