

CURRENT 1.0 Ampere
 VOLTAGE RANG 20 to 100 Volts

RMB12S THRU RMB16S

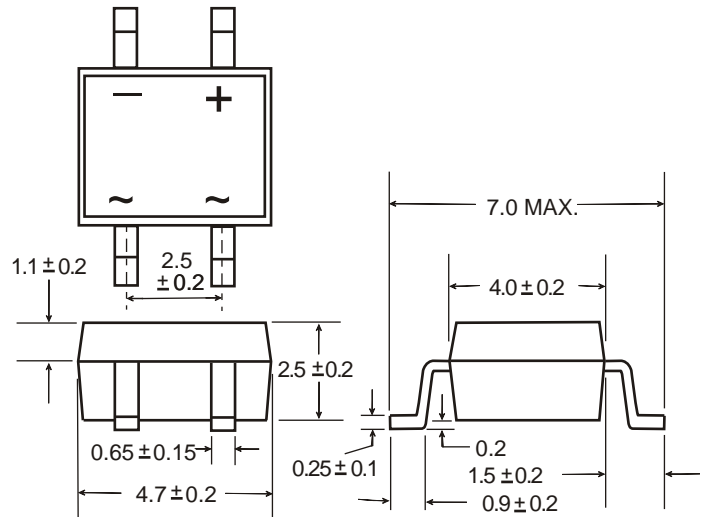
Features

- Low profile package
- Ideal for automated placement
- Ultrafast reverse recovery time
- Low power losses, high efficiency
- Low forward voltage drop
- High 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:** MBS molded plastic body over Schottky barrier chips
- Terminals:** Solder plated, solderable per J-STD-002B and JESD22-B102D
- Polarity:** Polarity symbols marked on body

MINI-SOP



Dimensions in millimeters(1mm =0.0394")

Maximum Ratings & Thermal Characteristics & Electrical Characteristics

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

	Symbol	RMB12S	RMB14S	RMB16S	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 $T_A = 25\text{ }^\circ\text{C}$ rated DC blocking voltage per leg $T_A = 125\text{ }^\circ\text{C}$	I_R	5.0 100			μA
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

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

Fig.1 Derating Curve For Output Rectified Current

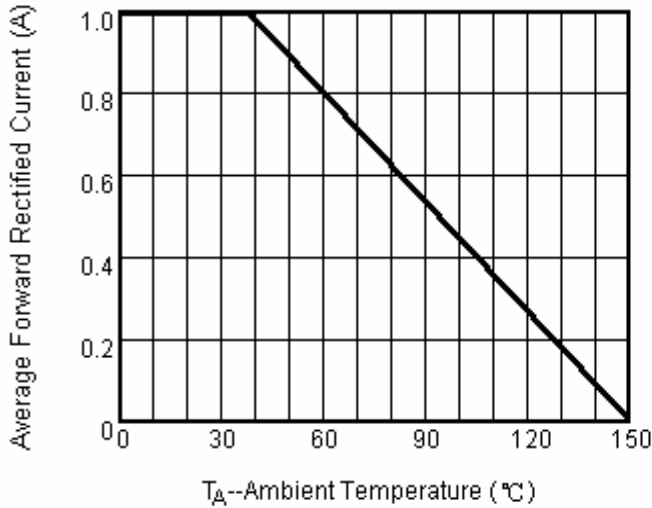


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current Per Leg

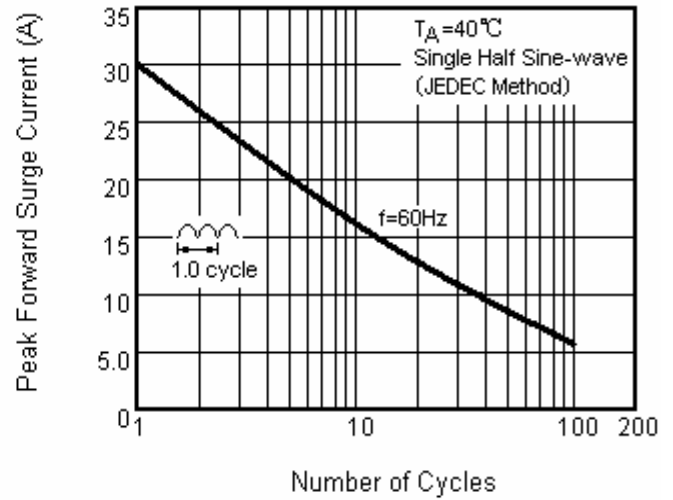


Fig.3 Typical Forward Voltage Characteristics Per Leg

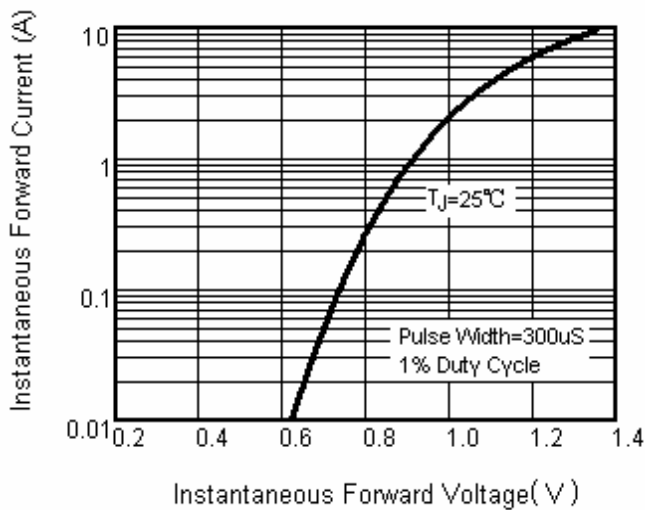


Fig.4 Typical Reverse Leakage Characteristics Per Leg

