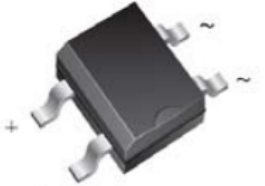
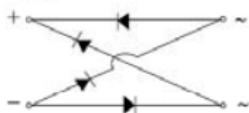


<b>MBS</b>		<b>Features</b>						
 		<ul style="list-style-type: none"> <li>ROHS compliant</li> <li>Glass passivated chip</li> <li>High forward surge capability</li> <li>Meet MSL level 1, per J-STD-020 LF maximum peak of 250 °C</li> <li>Solder dip 260 °C / 40S</li> <li>Component in accordance to ROHS 2002/95/EC and WEEE 2002/96/WC</li> <li>UL recognition, file number E342874</li> </ul>						
<b>Primary characteristics</b>		<b>Applications</b>						
$I_{F(AV)}$	0.8A	Ideal for ac-to-dc bridge full wave rectification such as SMPS, home appliances, office equipment, industrial automation applications						
$V_{RRM}$	200V to 1000V							
$I_{FSM}$	35A							
$I_{RM}$	5uA							
$V_{FM}$ at $I_F=0.4A$	1.0V							
$T_J$ max.	150 °C							
<b>Maximum rating (Ta=25°C unless otherwise noted)</b>		<b>Mechanical data</b>						
Parameter	Sym	MBS					Unit	
		MB102S	MB104S	MB106S	MB108S	MB110S		
Max. repetitive peak reverse voltage	$V_{RRM}$	200	400	600	800	1000	V	
Max. RMS reverse voltage	$V_{RMS}$	140	280	420	560	700	V	
Max. DC blocking voltage	$V_{DC}$	200	400	600	800	1000	V	
Max. average forward current	$I_{F(AV)}$	1.0					A	
Non-repetitive peak forward surge current 8.3ms single half-sine-wave	$I_{FSM}$	35.0					A	
Rating for fusing, $1ms \leq t \leq 8.3ms$	$I^2t$	5.0					A <sup>2</sup> S	
Max. instantaneous forward voltage drop per diode	$V_{FM}$	1 (0.4)					V	
Max. instantaneous reverse current at rated DC blocking voltage	Ta=25 °C	5					μA	
	Ta=125 °C	250					μA	
Operating junction temperature	$T_J$	-55 ~ +150					°C	
Storage temperature	$T_{STG}$	-55 ~ +150					°C	
Typical thermal resistance (Note2,1)	R <sub>J-A</sub>	70					°C/W	
	R <sub>J-L</sub>	20					°C/W	
<b>Notes</b>								
(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" (1.3 x 1.3mm) solder pad								

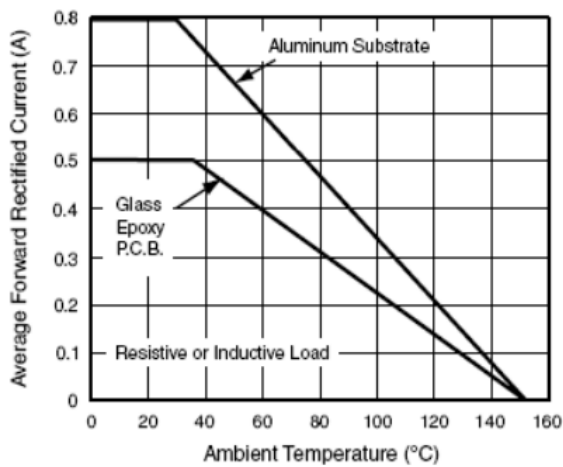




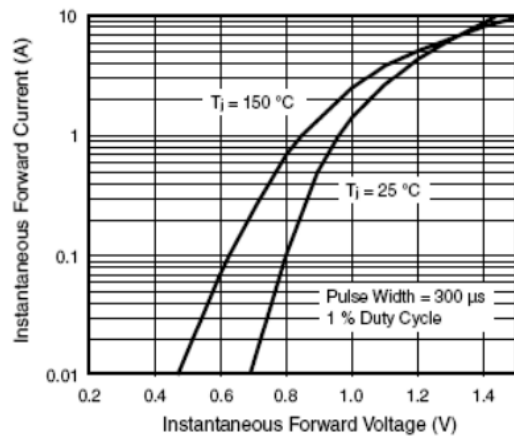
**Ordering information (Example)**

PREFERRED	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE
MB110S				

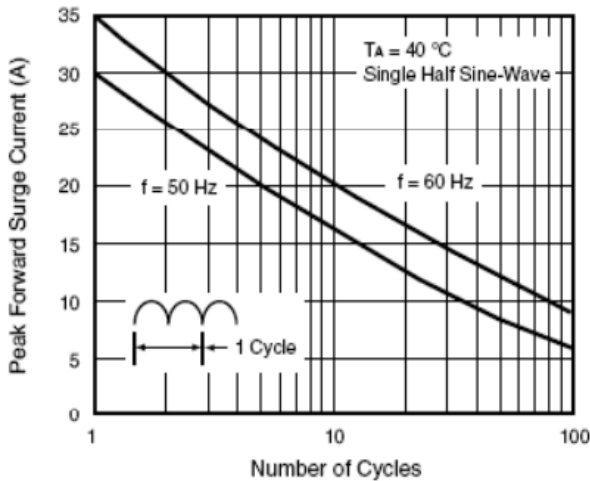
**Typical characteristics**



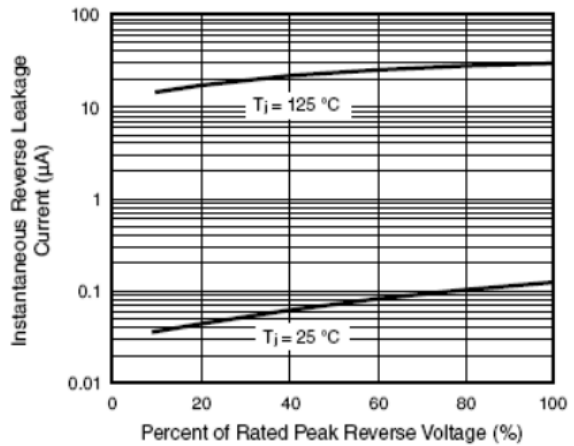
**Figure 1. Derating Curve for Output Rectified Current**



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

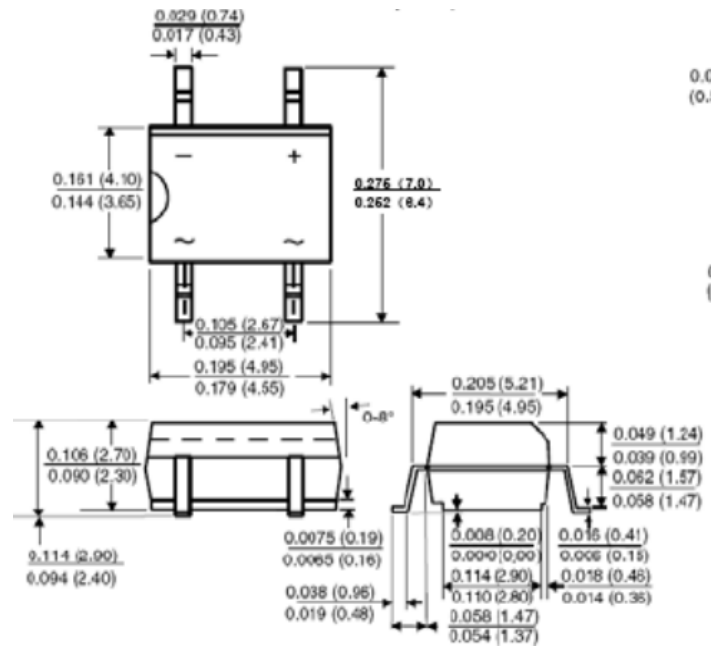


**Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Leg**



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

**Package outline dimensions**



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