

## Vishay General Semiconductor

<b>ELECTRICAL CHARACTERISTICS</b> ( $T_A = 25$ °C unless otherwise noted)								
PARAMETER	TEST CO	ONDITIONS	SYMBOL	MBL104S	MBL106S	MBL108S	MBL110S	UNIT
Maximum instantaneous forward voltage drop per diode	I <sub>F</sub> = 0.4 A	T <sub>A</sub> = 25 °C	V <sub>F</sub> <sup>(1)</sup>	0.95			V	
Maximum DC reverse current	Rated V <sub>R</sub>	T <sub>A</sub> = 25 °C	I <sub>R</sub> <sup>(2)</sup>	5				μA
per diode	naleu v <sub>R</sub>	T <sub>A</sub> = 125 °C		500				

#### Notes

<sup>(1)</sup> Pulse test: 300 µs pulse width, 1 % duty cycle

<sup>(2)</sup> Pulse test: Pulse width  $\leq$  40 ms

<b>THERMAL CHARACTERISTICS</b> ( $T_A = 25$ °c unless otherwise noted)								
PARAMETER	SYMBOL	MBL104S	MBL106S	MBL108S	MBL110S	UNIT		
Typical thermal resistance <sup>(1)</sup>	R <sub>θJA</sub>	72				°C/W		
	R <sub>θJL</sub>	25						

#### Note

<sup>(1)</sup> Device mounted on 0.47" x 0.47" (12 mm x 12 mm) copper pad areas, 1 oz. PCB

ORDERING INFORMATION (Example)							
PREFERRED P/N	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE			
MBL106S-M3/I	0.136	l	4000	13" diameter plastic tape and reel			

### RATINGS AND CHARACTERISTICS CURVES (T<sub>A</sub> = 25 °C unless otherwise noted)

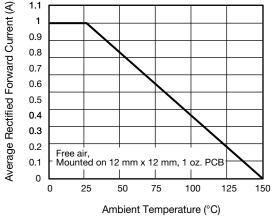
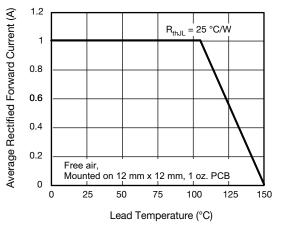
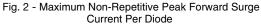


Fig. 1 - Derating Curve for Output Rectified Current





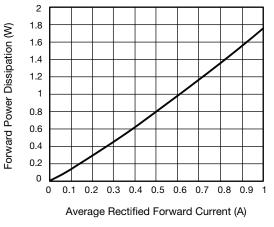
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# MBL104S, MBL106S, MBL108S, MBL110S

## Vishay General Semiconductor





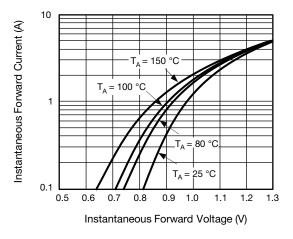
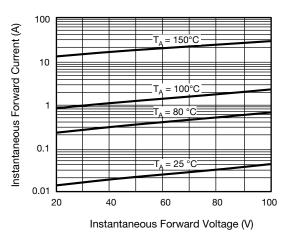
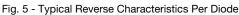
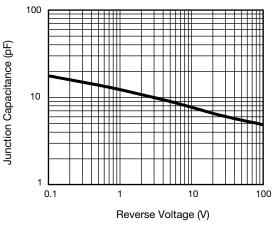


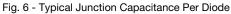
Fig. 4 - Typical Instantaneous Forward Characteristics Per Diode

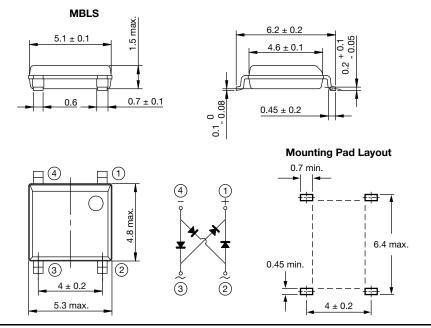
### **PACKAGE OUTLINE DIMENSIONS** in millimeters











Revision: 12-Sep-13

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Document Number: 89959

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