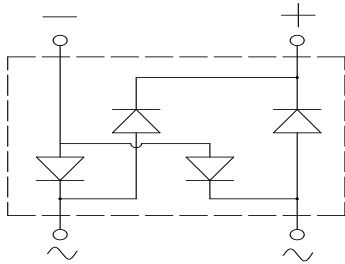
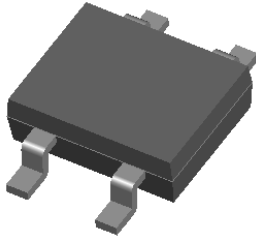


## Bridge Rectifiers



### Features

- UL recognition, file #E313149
- Ideal for automated placement
- High surge current capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C

### Typical Applications

General purpose use in AC/DC bridge full wave rectification for power supply, lighting ballast, battery charger, home appliances, office equipment, and telecommunication applications.

### Mechanical Data

- **Package:** MBL S  
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** As marked on body

### ■ Maximum Ratings ( $T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	MBL1S	MBL2S	MBL4S	MBL6S	MBL8S	MBL10S
Device marking code			MBL1S	MBL2S	MBL4S	MBL6S	MBL8S	MBL10S
Repetitive peak reverse voltage	VRRM	V	100	200	400	600	800	1000
Average rectified output current @60Hz sine wave, R-load, $T_a=40^\circ\text{C}$	On alumina substrate	$I_o$	A	0.8				
	On glass-epoxy substrate			0.5				
Surge(non-repetitive)forward current @60Hz half sine wave, 1 cycle, $T_j=25^\circ\text{C}$	IFSM	A	30					
Current squared time @ $1\text{ms} \leq t \leq 8.3\text{ms}$ , $T_j=25^\circ\text{C}$ , rating of per diode	$I^2t$	$\text{A}^2\text{s}$	3.7					
Storage temperature	$T_{\text{stg}}$	$^\circ\text{C}$	-55 ~ +150					
Junction temperature	$T_j$	$^\circ\text{C}$	-55 ~ +150					

### ■ Electrical Characteristics ( $T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBL1S	MBL2S	MBL4S	MBL6S	MBL8S	MBL10S
Maximum instantaneous forward voltage drop per diode	$V_F$	V	$I_{FM}=0.4\text{A}$	1.00					
Maximum DC reverse current at rated DC blocking voltage per diode	$I_{RRM}$	$\mu\text{A}$	$V_{RM}=V_{RRM}$	5					



# MBL1S THRU MBL10S

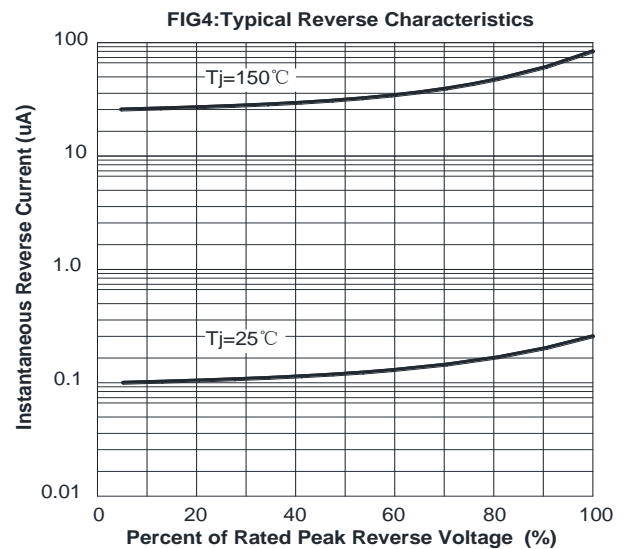
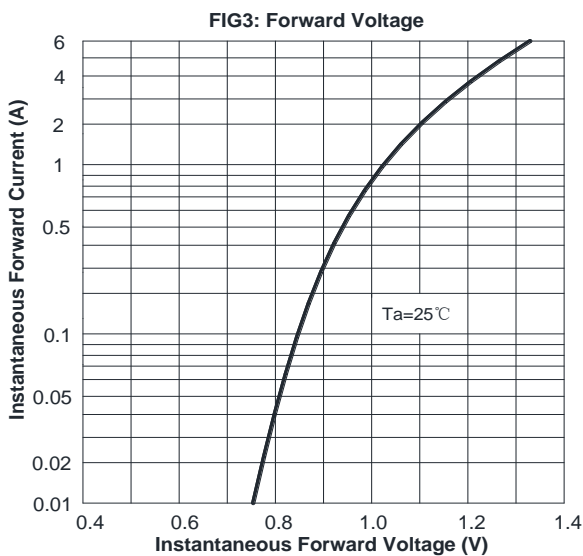
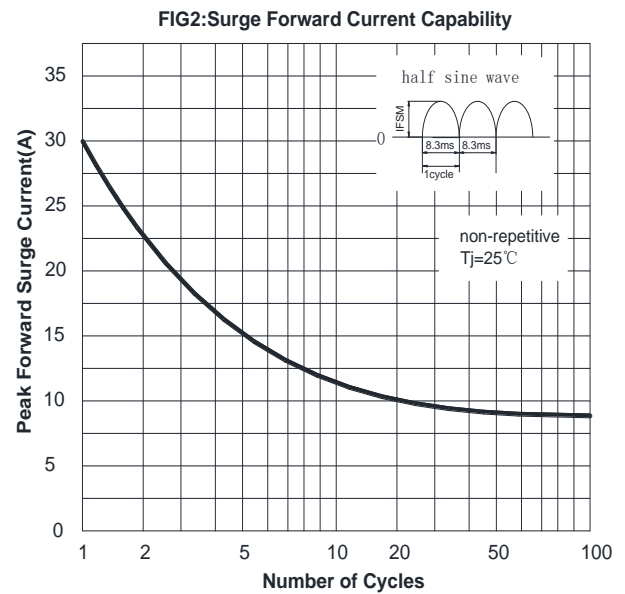
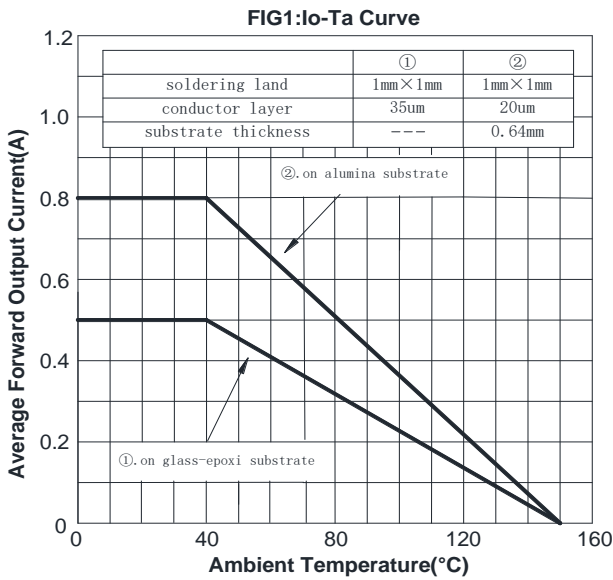
## ■ Thermal Characteristics (T<sub>a</sub>=25°C Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	MBL1S	MBL2S	MBL4S	MBL6S	MBL8S	MBL10S
Thermal Resistance	Between junction and ambient, On alumina substrate	R $\theta$ J-A	°C/W	76.0					
	Between junction and ambient, On glass-epoxi substrate	R $\theta$ J-A		134.0					
	Between junction and lead	R $\theta$ J-L		20.0					

## ■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBL1S-MBL10S	F1	Approximate 0.083	4000	8000	64000	13' reel

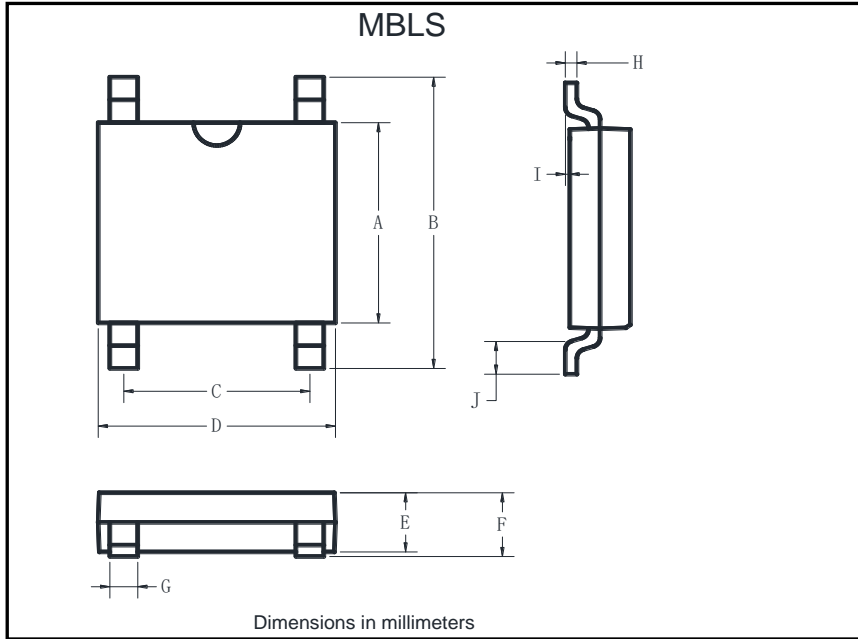
## ■ Characteristics (Typical)





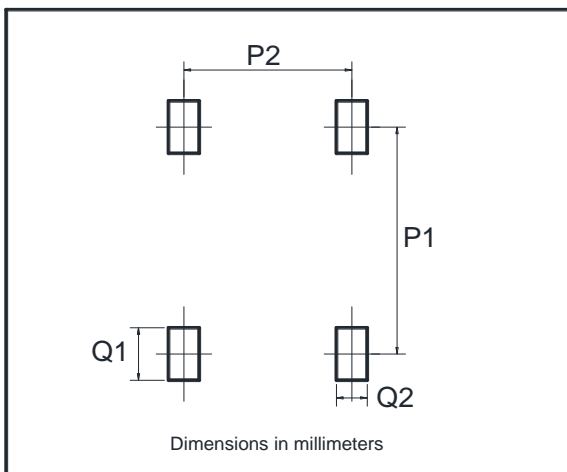
# MBL1S THRU MBL10S

## ■ Outline Dimensions



MBLS		
Dim	Min	Max
A	3.60	4.00
B	6.40	7.00
C	2.20	2.60
D	4.50	4.90
E	1.30	1.50
F	1.40	1.60
G	0.56	0.84
H	0.15	0.35
I	0.20Max	
J	0.70	1.10

## ■ Suggested pad layout



Dim	Min
P1	6.00
P2	2.40
Q1	1.84
Q2	1.20



## MBL1S THRU MBL10S

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