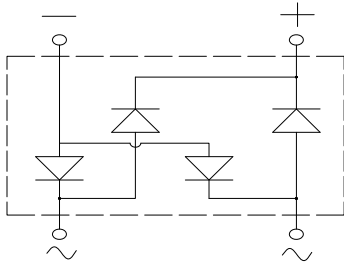
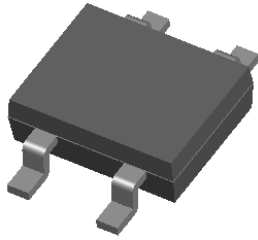


## Bridge Rectifiers



### 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 high frequency AC/DC bridge full wave rectification for power supply, lighting ballast, battery charger, home appliances, office equipment, and telecommunication applications.

### Mechanical Data

- **Package:** MBLS  
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<sub>a</sub>=25°C Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	RMBL2S	RMBL4S	RMBL6S	RMBL8S	RMBL10S
Device marking code				RMBL2S	RMBL4S	RMBL6S	RMBL8S	RMBL10S
Repetitive peak reverse voltage		VRRM	V	200	400	600	800	1000
Average rectified output current @60Hz sine wave, R-load, T <sub>a</sub> =40°C	On alumina substrate	I <sub>O</sub>	A	0.8				
	On glass-epoxy substrate			0.5				
Surge(non-repetitive)forward current @60Hz half sine wave, 1 cycle, T <sub>j</sub> =25°C		IFSM	A	30				
Current squared time @1ms≤t≤8.3ms T <sub>j</sub> =25°C, rating of per diode		I <sup>2</sup> t	A <sup>2</sup> S	3.7				
Storage temperature		T <sub>stg</sub>	°C	-55 ~+150				
Junction temperature		T <sub>j</sub>	°C	-55 ~+150				

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	RMBL2S	RMBL4S	RMBL6S	RMBL8S	RMBL10S
Maximum instantaneous forward voltage drop per diode	V <sub>F</sub>	V	I <sub>FM</sub> =0.4A	1.30				
Maximum Reverse Recovery Time	T <sub>rr</sub>	ns	I <sub>F</sub> =0.5A, I <sub>R</sub> =1.0A, I <sub>rr</sub> =0.25A	150		250		500
Maximum DC reverse current at rated DC blocking voltage per diode	I <sub>RRM</sub>	μA	V <sub>RM</sub> =V <sub>RRM</sub>	10				



# RMBL2S THRU RMBL10S

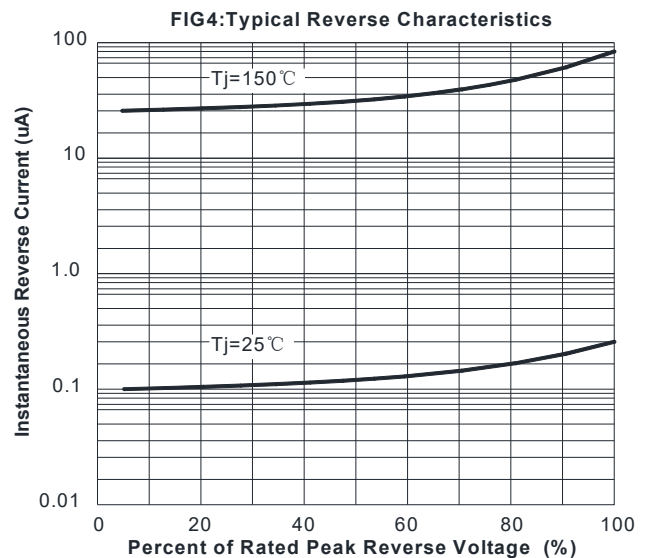
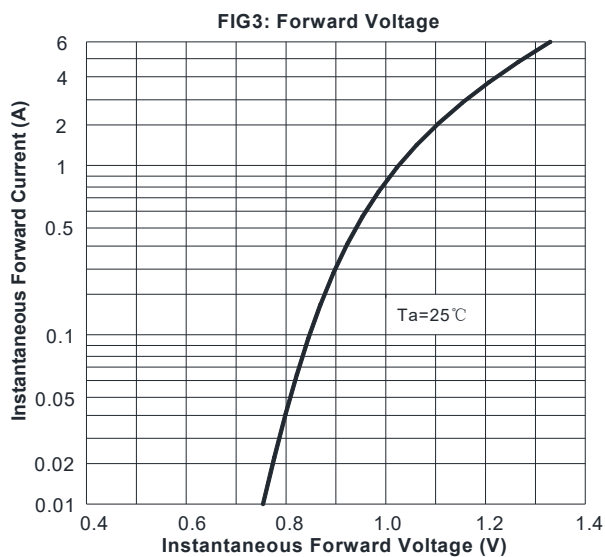
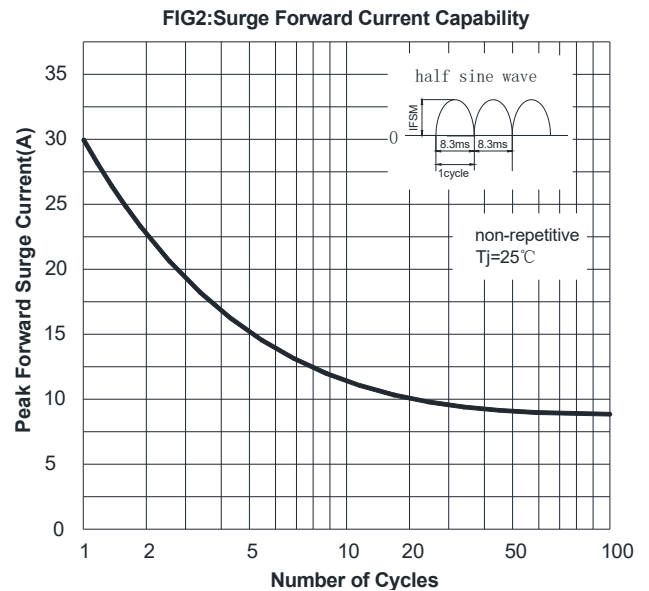
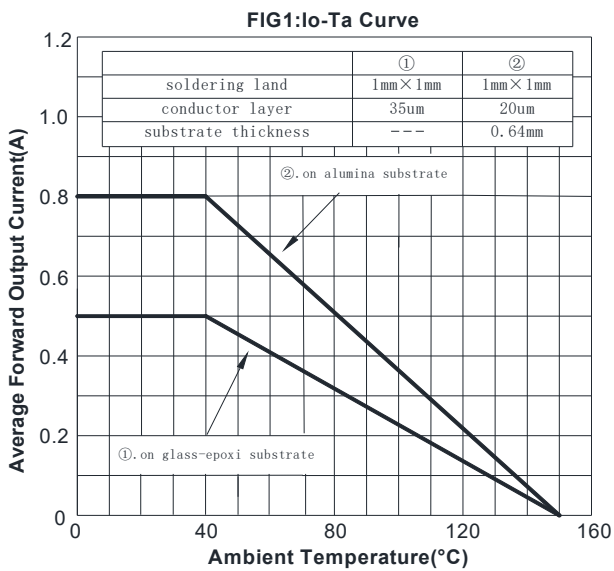
## ■ Thermal Characteristics (T<sub>a</sub>=25°C Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	RMBL2S	RMBL4S	RMBL6S	RMBL8S	RMBL10S
Thermal Resistance	Between junction and ambient, On alumina substrate	R <sub>θJ-A</sub>	°C/W	76.0				
	Between junction and ambient, On glass-epoxy substrate	R <sub>θJ-A</sub>		134.0				
	Between junction and lead	R <sub>θJ-L</sub>		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
RMBL1S-RMBL10S	F1	Approximate 0.083	4000	8000	64000	13' reel
RMBL1S-RMBL10S	F3	Approximate 0.083	5000	10000	80000	13' reel

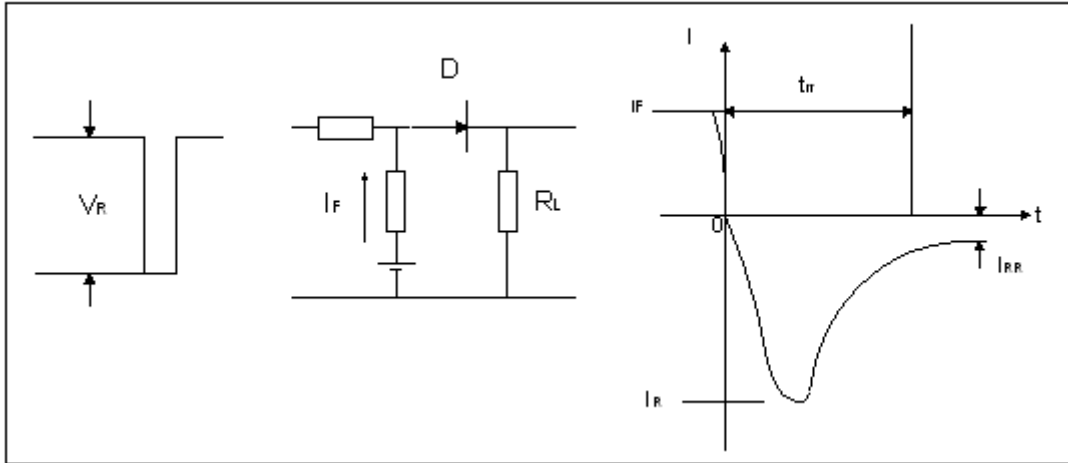
## ■ Characteristics(Typical)



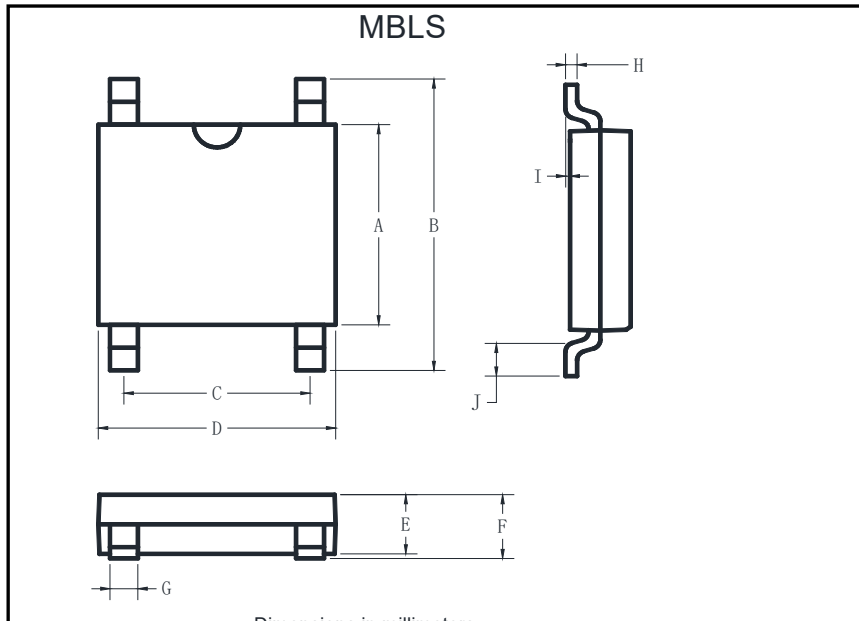


# RMBL2S THRU RMBL10S

FIG.5: Diagram of circuit and Testing wave form of reverse recovery time

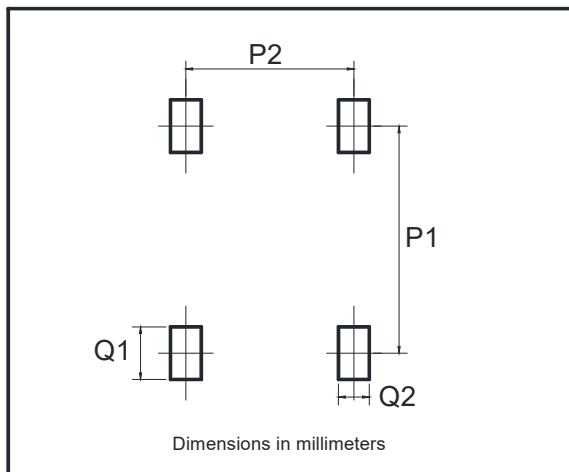


## ■ Outline Dimensions



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



## RMBL2S THRU RMBL10S

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