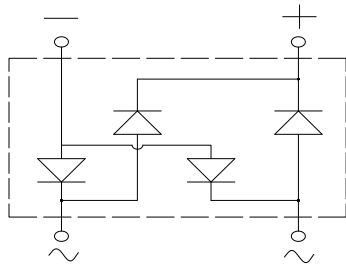
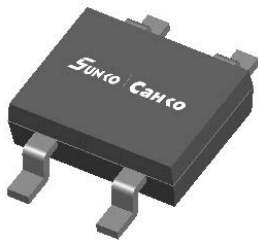


Bridge Rectifiers



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, -
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** As marked on body

■ Maximum Ratings (T_a=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 _a =40°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°C		I _{FSM}	A	30				
Current squared time @1ms≤t≤8.3ms T _j =25°C, rating of per diode		I ² t	A ² S	3.7				
Storage temperature		T _{stg}	°C	-55 ~+150				
Junction temperature		T _j	°C	-55 ~+150				

■ Electrical Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	RMBL2S	RMBL4S	RMBL6S	RMBL8S	RMBL10S
Maximum instantaneous forward voltage drop per diode	V _F	V	I _{FM} =0.4A	1.30				
Maximum Reverse Recovery Time	T _{rr}	ns	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A	150		250	500	
Maximum DC reverse current at rated DC blocking voltage per diode	I _{RRM}	μA	V _{RM} =VRRM	10				

RMBL2S THRU RMBL10S

Thermal Characteristics (T_a=25°C Unless otherwise specified)

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

Characteristics(Typical)

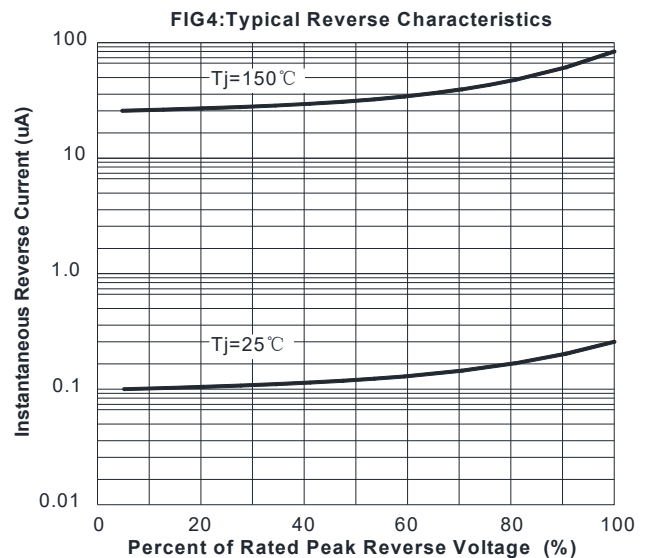
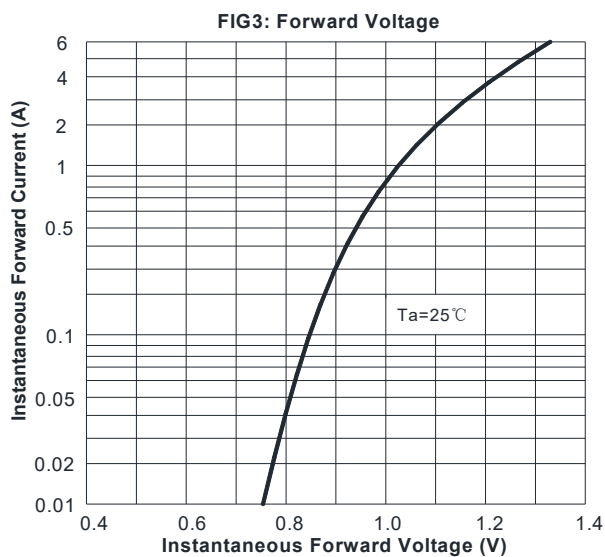
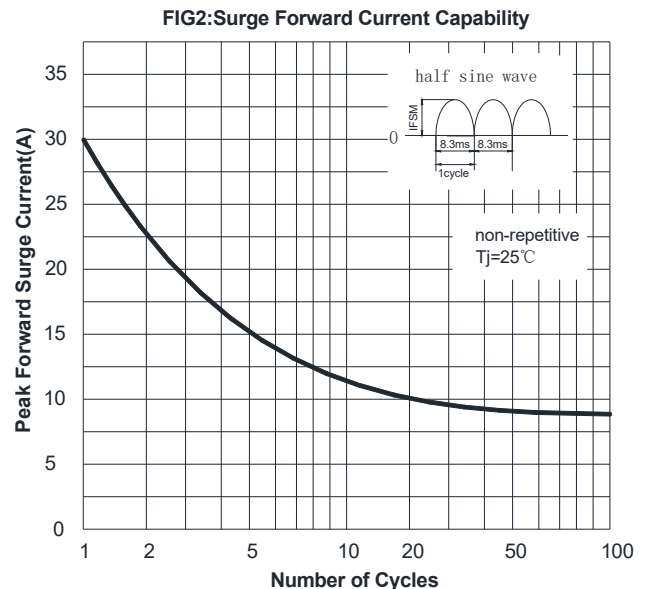
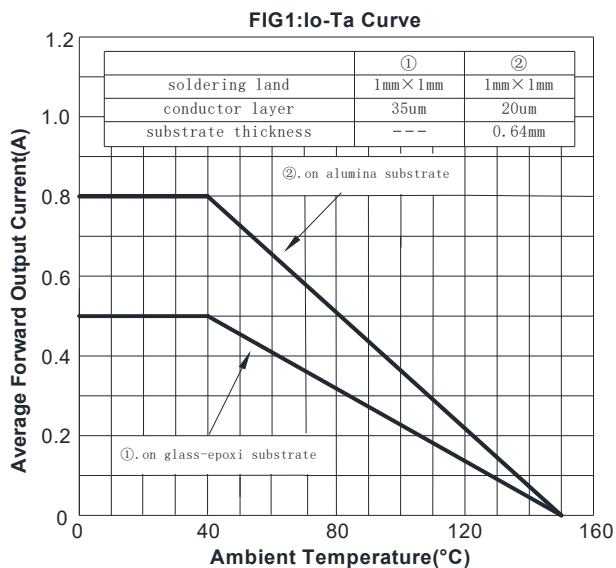
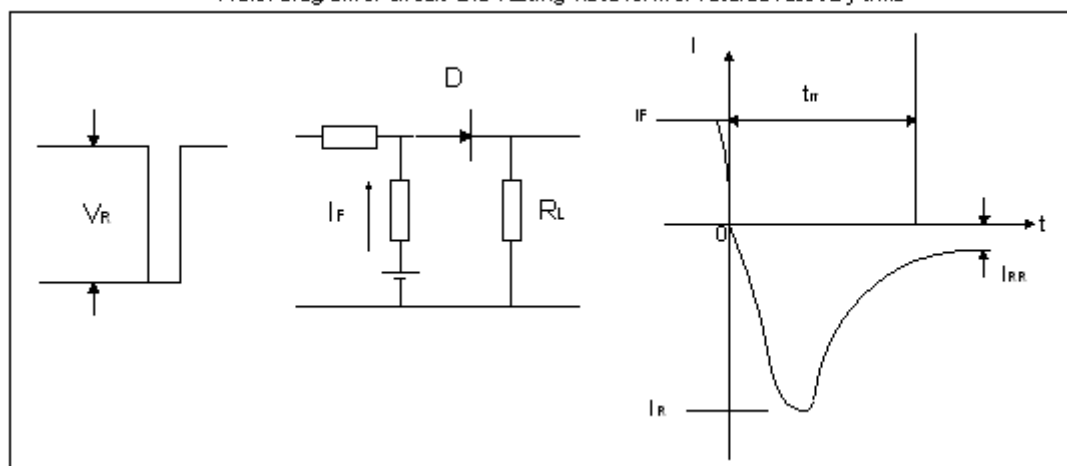
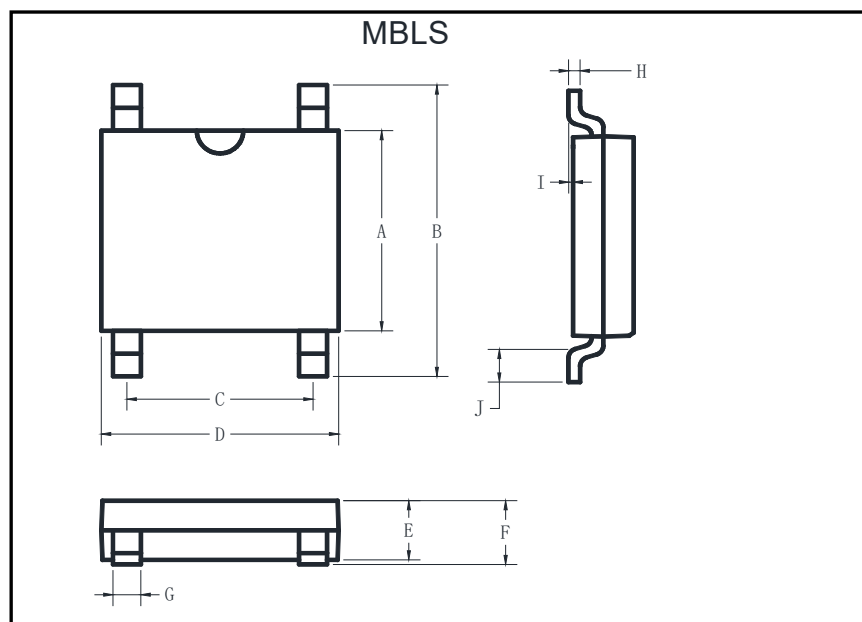


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time

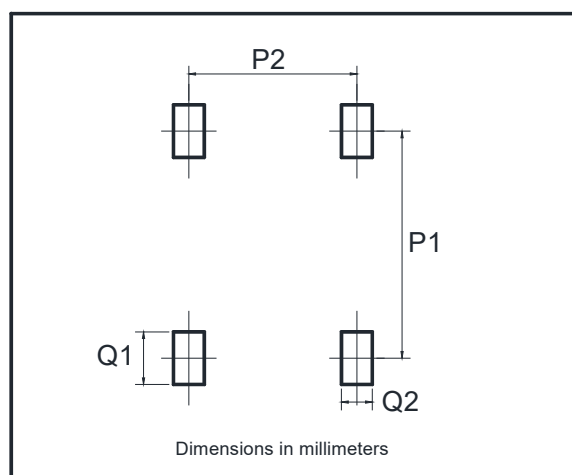


■ Outline Dimensions



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

Disclaimer

The information presented in this document is for reference only. Shanghai Sunco Electronics Co., Ltd reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Russiansunco or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website [http:// www.russiansunco.com](http://www.russiansunco.com) , or consult your nearest Russiansunco's sales office for further assistance.