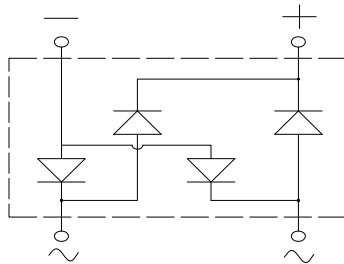
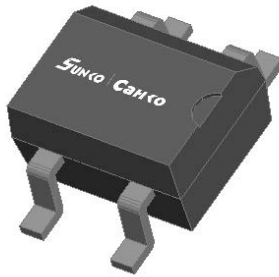


Bridge Rectifiers



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 ballaster, battery charger, home appliances, office equipment, and telecommunication applications.

Mechanical Data

- **Package:** MBS
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 (Ta=25°C Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	RMB2S	RMB4S	RMB6S	RMB8S	RMB10S
Device marking code				RMB2S	RMB4S	RMB6S	RMB8S	RMB10S
Repetitive peak reverse voltage		VRRM	V	200	400	600	800	1000
Average rectified output current @60Hz sine wave, R-load, Ta=40°C	On alumina substrate	IO	A	0.8				
	On glass-epoxi substrate			0.5				
Surge(non-repetitive)forward current @60HZ half sine wave, 1 cycle, Tj=25°C		IFSM	A	35				
Current squared time @1ms≤t<8.3ms Tj=25°C, rating of per diode		I²t	A²S	5.1				
Storage temperature		Tstg	°C	-55 ~+150				
Junction temperature		Tj	°C	-55 ~+150				

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	RMB2S	RMB4S	RMB6S	RMB8S	RMB10S
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=0.5A	1.30				
Maximum Reverse Recovery Time	Trr	ns	IF=0.5A, IR=1.0A, Irr=0.25A	150		250	500	
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	µA	VRM=VRRM	10				

RMB2S THRU RMB10S

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

PARAMETER		SYMBOL	UNIT	RMB2S	RMB4S	RMB6S	RMB8S	RMB10S
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)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
RMB2S-RMB10S	F1	Approximate 0.12	2500	5000	40000	13' reel
RMB2S-RMB10S	F2	Approximate 0.12	3000	6000	48000	13' reel

■ Characteristics(Typical)

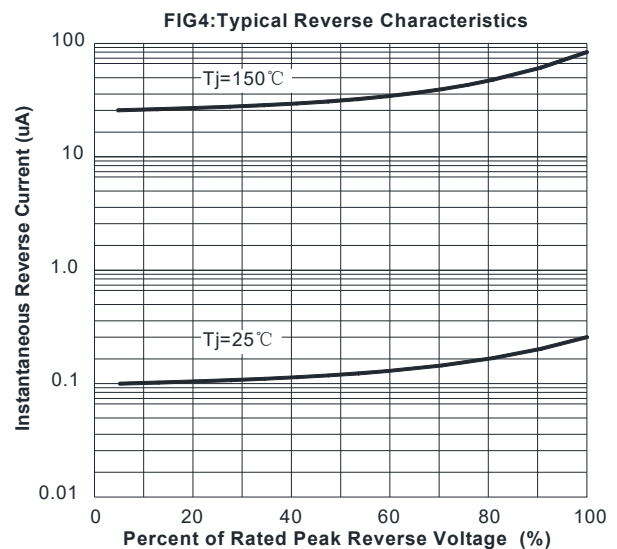
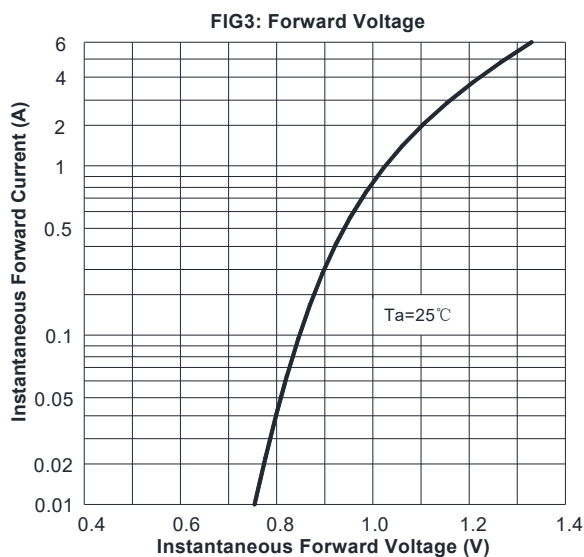
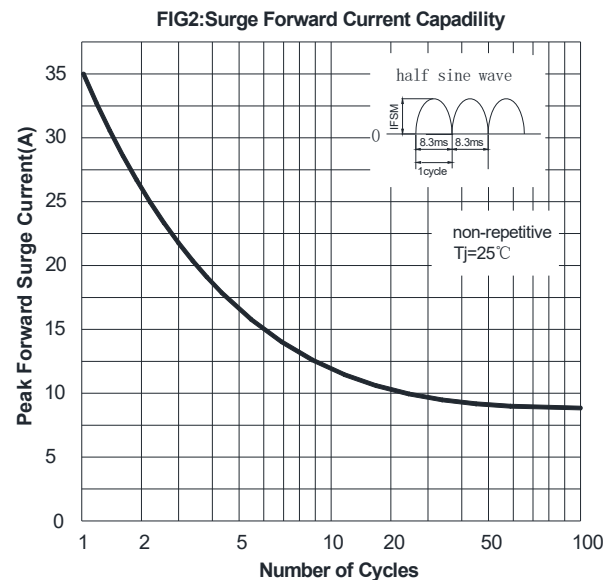
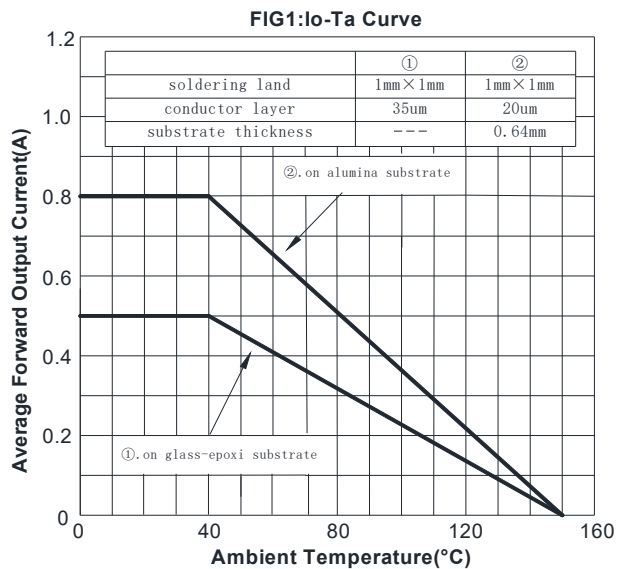
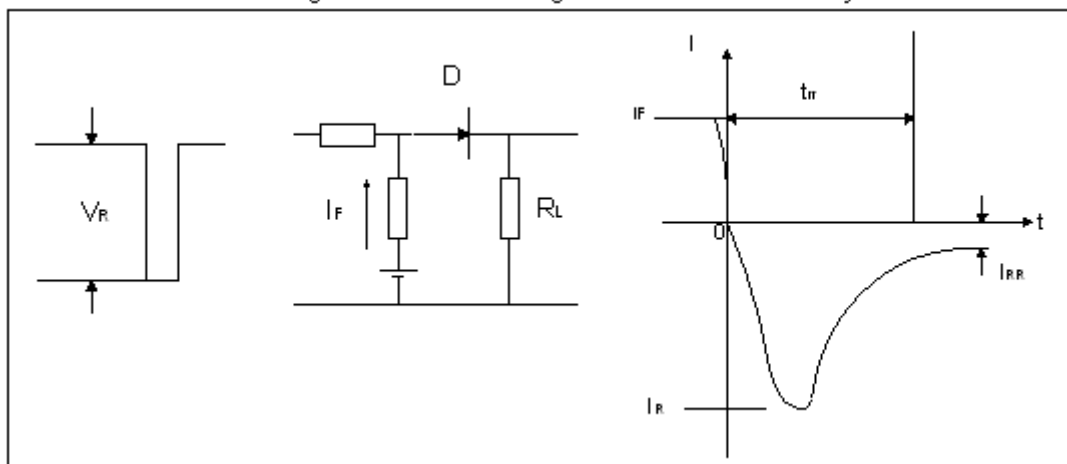
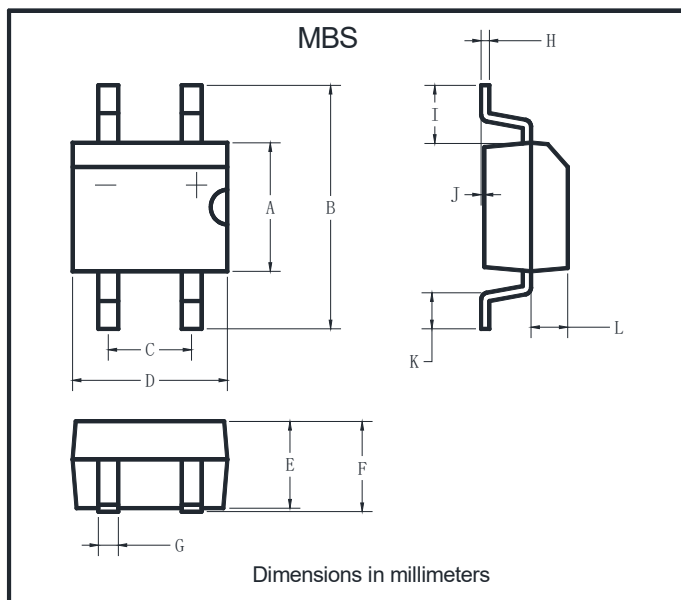


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time

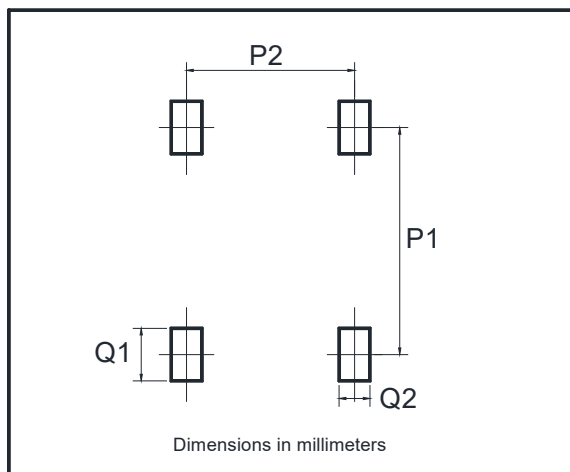


■ Outline Dimensions



MBS		
Dim	Min	Max
A	3.60	4.00
B	7.00 Max	
C	2.20	2.60
D	4.50	4.90
E	2.30	2.70
F	3.00 Max	
G	0.56	0.84
H	0.15	0.35
I	1.10	2.12
J	0.20 Max	
K	0.70	1.10
L	0.95	1.53

■ Suggested pad layout



Dim	Min
P1	6.00
P2	2.40
Q1	1.84
Q2	1.20

Disclaimer

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