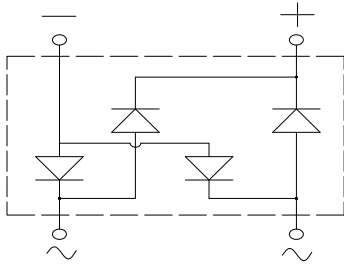
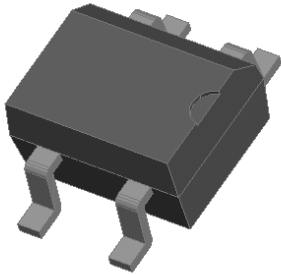


Bridge Rectifiers



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, RoHS-compliant
- **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	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, 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	IFSM	A	35				
Current squared time @1ms≤t<8.3ms T _j =25°C, rating of per diode	I ² t	A ² S	5.1				
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	RMB2S	RMB4S	RMB6S	RMB8S	RMB10S
Maximum instantaneous forward voltage drop per diode	V _F	V	I _{FM} =0.5A	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} =V _{RRM}	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-epoxi 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
RMB2S-RMB10S	F1	Approximate 0.12	2500	5000	40000	13' reel
RMB2S-RMB10S	F2	Approximate 0.12	3000	6000	48000	13' reel

■ Characteristics(Typical)

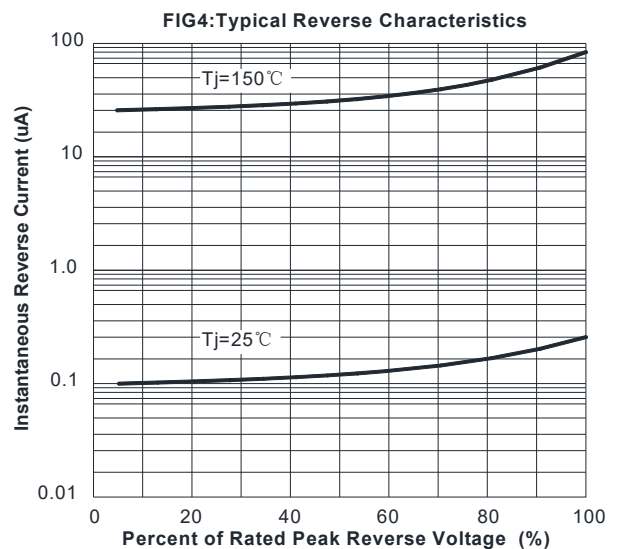
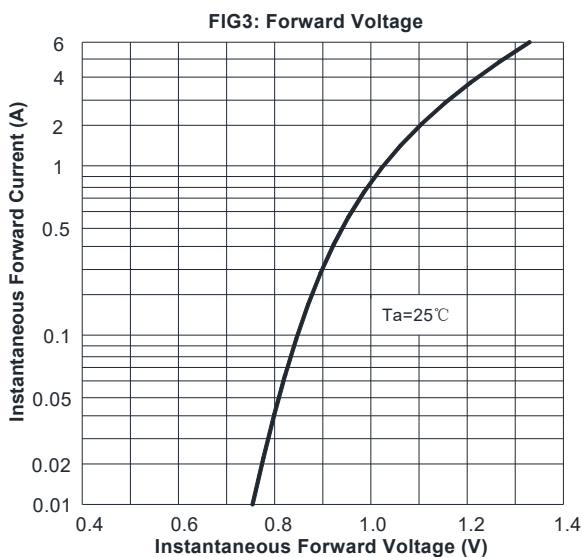
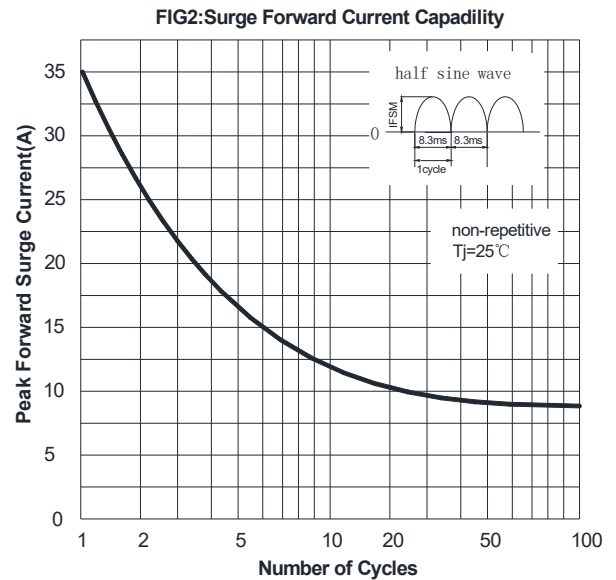
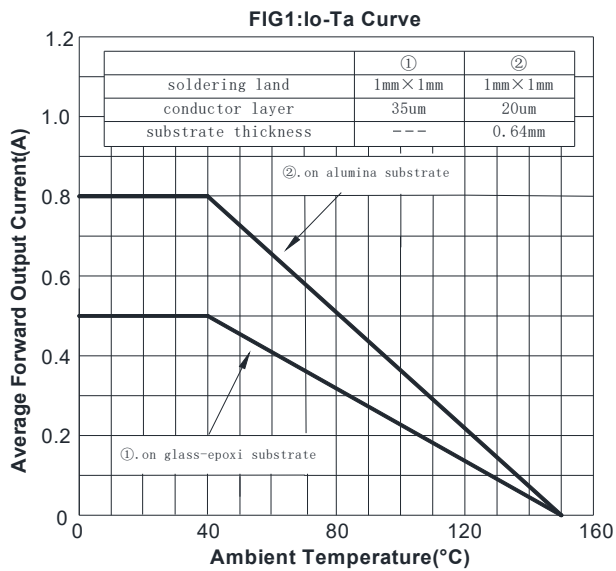
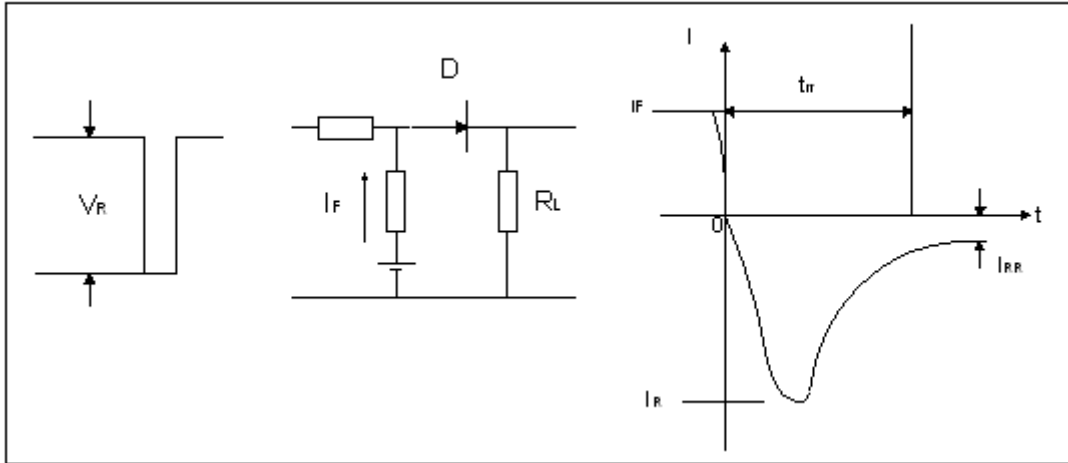
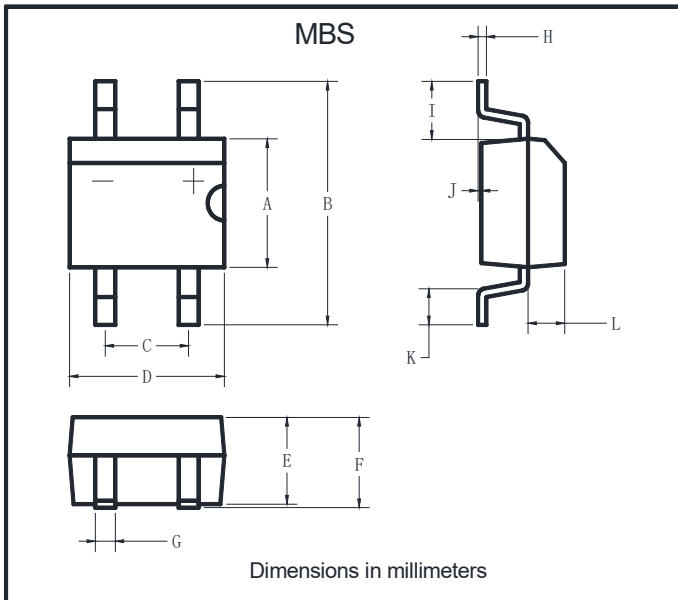


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time

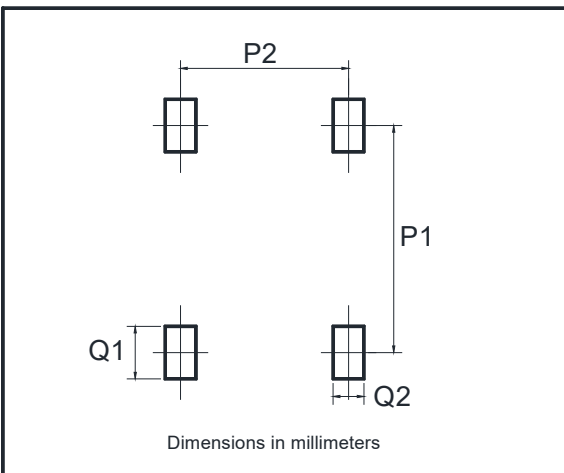


■ Outline Dimensions



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



RMB2S THRU RMB10S

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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), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

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