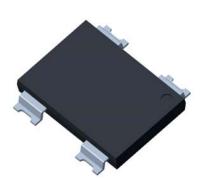
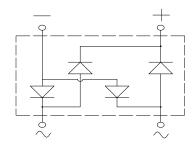






Fast Recovery Bridge Rectifiers





Features

- UL recognition, file #E313149
- Glass passivated chip junction
- 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 SMPS, lighting ballaster, adapter, battery charger, home appliances, office equipment, and telecommunication applications.

Mechanical Data

Package: YBS2G
 Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, Halogen-free

• **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	RYBSA6010
Device marking code			RYBSA6010
Maximum Repetitive Peak Reverse Voltage	VRRM	V	1000
Maximum RMS Voltage	VRMS	V	700
Maximum DC blocking Voltage	VDC	V	1000
Average rectified output current @60Hz sine wave, R-load, Tc=60°C	Ю	А	6.0
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25°C	l=o	А	150
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C	IFSM		300
Current squared time @1ms≤t≤8.3ms Tj=25°C,Rating of per diode	l ² t	A ² s	93.4
Storage temperature	T _{stg}	°C	-55 ~ +150
Junction temperature	Tj	°C	-55 ~ +150



RYBSA6010

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

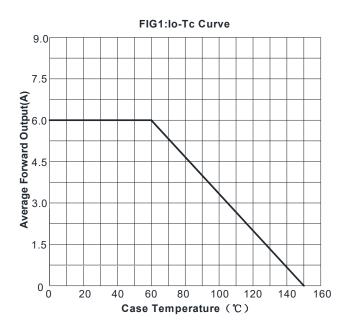
PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	RYBSA6010
Maximum reverse recovery time	t _{rr}	ns	I _F =0.5A,I _R =1.0A, I _r =0.25A	500
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=3.0A	1.3
Maximum DC reverse current at rated DC blocking voltage per diode		μА	T _j =25°C	5
	ır.		T _j =125°C	100
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	56

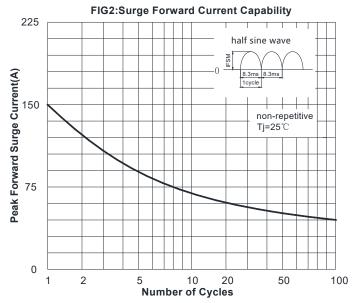
■Thermal Characteristics $(T_a=25$ $^{\circ}$ C Unless otherwise specified)

	PARAMETER	SYMBOL	UNIT	RYBSA6010
	Between Junction and Ambient	$R_{\theta J\text{-}A}$	°C/W	55
Typical Thermal Resistance	Between Junction and Lead	$R_{\theta J\text{-}L}$		10
	Between Junction and Case	$R_{ heta J ext{-}C}$		6

Note: Device mounted on P.C.B with 35mm*25mm*1.7mm.

■ Characteristics (Typical)









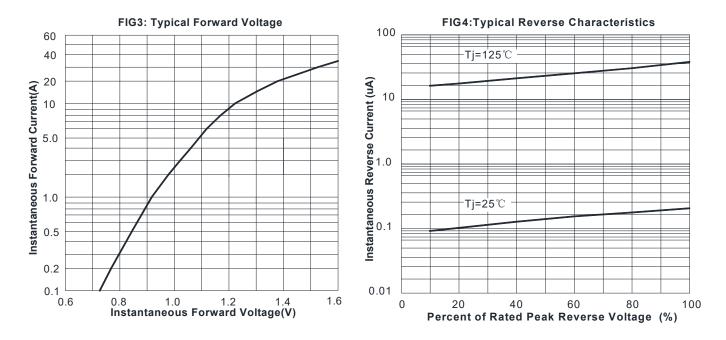
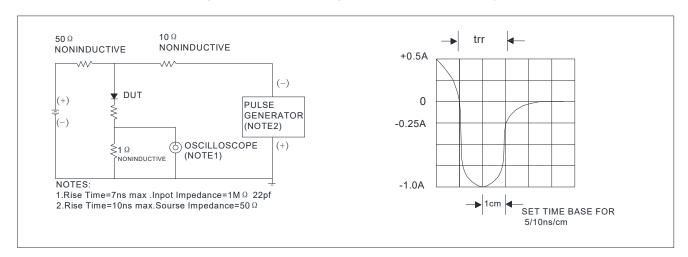


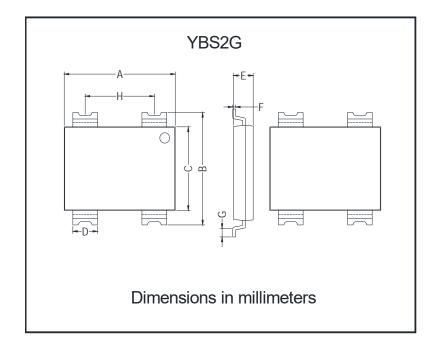
FIG.5: Diagram of circuit and Testing wave form of reverse recovery time





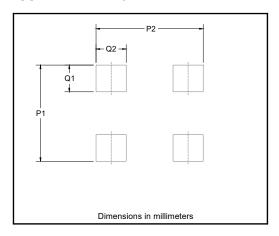


■ Outline Dimensions



YBS2G				
Dim	Min	Max		
Α	8.6	9.2		
В	8.3	8.9		
С	6.2	6.6		
D	1.85	2.15		
E	1.35	1.75		
F	0.1	0.3		
G	0.4	0.8		
Н	5.4	5.8		

■ Suggested pad layout



YBS2G		
Dim	Min	
P1	11	
P2	7.8	
Q1	2.4	
Q2	2.2	



RYBSA6010

Disclaimer

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