



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:** YBS3
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 (T_a=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	RYBSM4010
Device marking code			RYBSM4010
Maximum Repetitive Peak Reverse Voltage	VRRM	V	1000
Maximum RMS Voltage	VRMS	V	700
Maximum DC blocking Voltage	VDC	V	1000
			@60Hz sine wave, R-load, Tc=86
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, Tj=25	IFSM	A	120
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25			240

Current squared } ↑

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RYBSM4010

■ Thermal Characteristics $T_a=25$ Unless otherwise specified

PARAMETER		SYMBOL	UNIT	RYBSM4010
Typical Thermal Resistance	Between Junction and Ambient	$R_{\theta J-A}$	/W	55
	Between Junction and Lead	$R_{\theta J-L}$		14
	Between Junction and Case	$R_{\theta J-C}$		8

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

■ Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
RYBSM4010	F1	Approximate 0.36	1800	3600	25200	13" Reel

■ Characteristics(Typical)

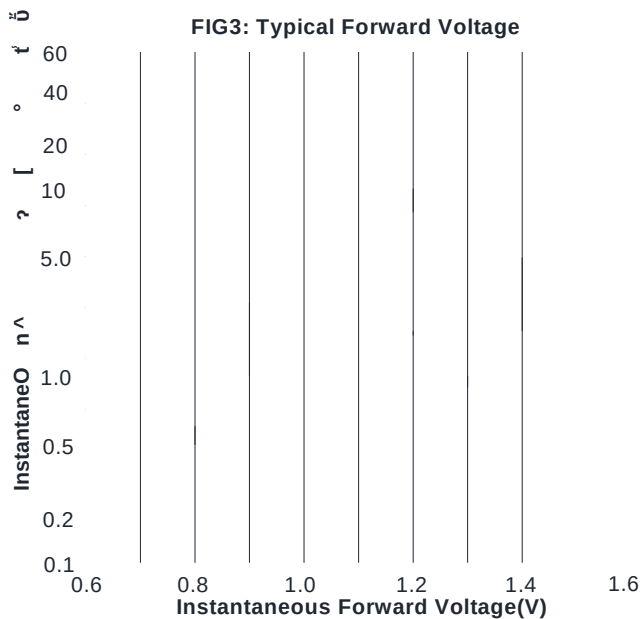
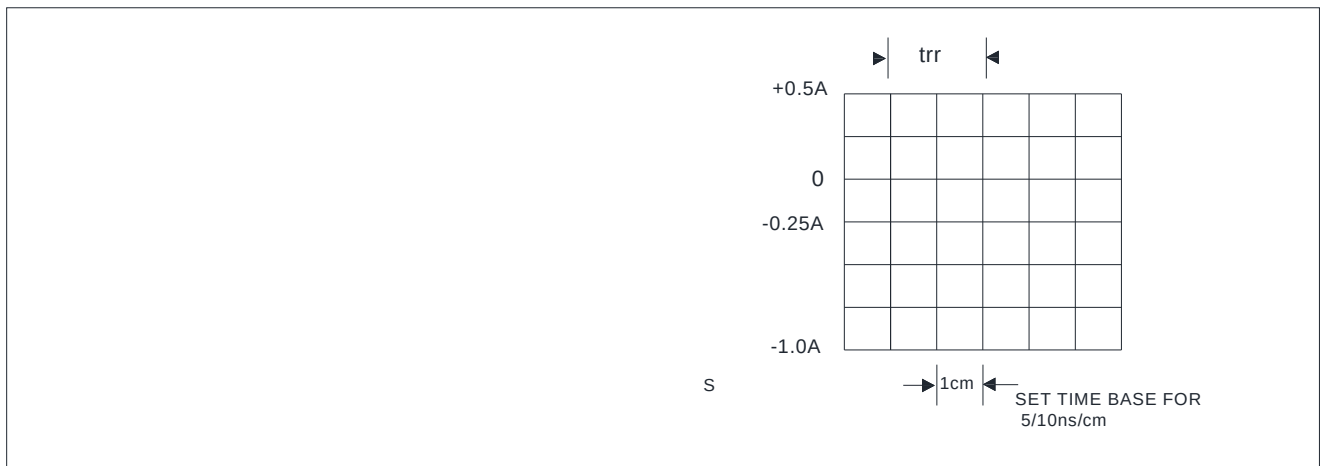




FIG.5: Diagram of circuit and Testing wave form of reverse recovery time



■ Outline Dimensions

YBS3		
Dim	Min	Max
A	10.00	10.40
B	9.70	10.10
C	6.80	7.20
D	1.3	1.5
E	1.4	1.8
F	0.5	1.1
G	0	0.15
H	4.9	5.1
T	0.20	0.30

■ Suggested pad layout

YBS3	
Dim	Min
P1	9.25
P2	5.00
Q1	1.00
Q2	1.5



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