



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	RYBSM6010
Device marking code			RYBSM6010
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, $T_c=60$	I _O	A	6.0
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, $T_j=25$	IFSM	A	150
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, $T_j=25$			300
Current squared time @1ms $t \leq 8.3ms$ $T_j=25$ Rating of per diode	I ² t	A ² s	93.4
Storage temperature	T _{stg}		-55 ~ +150
Junction temperature	T _j		-55 ~ +150

Electrical Characteristics $T_a=25$ Unless otherwise specified



RYBSM6010

Thermal Characteristics $T_a=25$ Unless otherwise specified

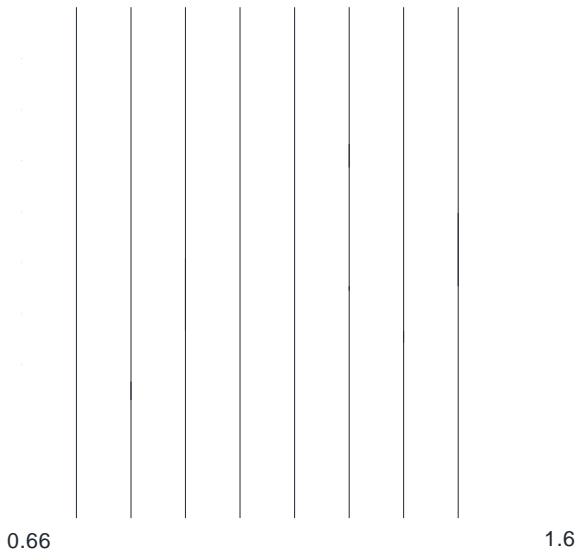
PARAMETER		SYMBOL	UNIT	RYBSM6010
Typical Thermal Resistance	Between Junction and Ambient	R_{JA}	/W	55
	Between Junction and Lead	R_{JL}		14
	Between Junction and Case	R_{JC}		8

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

Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
RYBSM6010	F1	Approximate 0.36	1800	3600	25200	13" Reel

Characteristics(Typical)





Outline Dimensions

YBS3		
Dim	Min	Max
A	10.00	10.40
B	9.70	10.10

Suggested pad layout



Disclaimer

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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 an