

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: YBS6

Molding compound meets UL 94 V-0 flammability

rating, -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)

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PARAMETER	SYMBOL	UNIT	YBSN150005A	YBSN15001A	YBSN15002A	YBSN15004A	YBSN15006A	YBSN15008A	YBSN15010A
Device marking code			YBSN150005A	YBSN15001A	YBSN15002A	YBSN15004A	YBSN15006A	YBSN15008A	YBSN15010A
Maximum Repetitive Peak Reverse Voltage	VRRM	V	50	100	200	400	600	800	1000
Maximum RMS Voltage	VRMS	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage	VDC	٧	50	100	200	400	600	800	1000
Average rectified output current @60Hz sine wave, R-load, Tc=95°C	Io	Α		15					
Forward Surge Current (Non-repetitive)@60Hz Half-sine wave,1 cycle, Ti=25°C						350			
Forward Surge Current (Non-repetitive)@1ms, square wave, 1 cycle, Tj=25°C	IFSM	A	700						
Current squared time @1ms≤t≤8.3ms Tj=25°C,Rating of per diode	l ² t	A ² s	508						
Storage temperature	T _{stg}	°	-55 ~ +150						
Junction temperature	Tj	℃	-55 ~ +150						



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

PARAMETER	ҮМВО	UNIT	TEST CONDITIONS	YBSN150005A	YBSN15001A	YBSN15002A	YBSN15004A	YBSN15006A	YBSN15008A	YBSN15010A
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=7.5A				1.0			
Maximum DC reverse current at	reverse current at rated DC blocking	IR µA	T _j =25°C	5						
rated DC blocking voltage per diode			T _j =125°C	100						
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C		110					

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

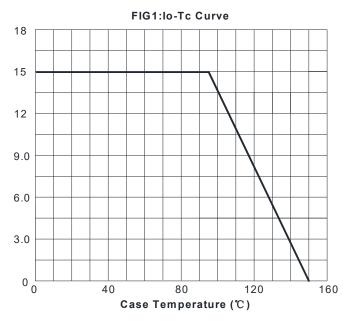
PAF	RAMETER	SYMBOL	UNIT	YBSN150005A	YBSN15001A	YBSN15002A	YBSN15004A	YBSN15006A	YBSN15008A	YBSN15010A
	Between Junction and Ambient	R _{θJ-A}		50						
Typical Thermal Resistance	Between Junction and Lead	R _{θJ-L}	°C/W				10			
	Between Junction and Case	R _{θJ-C}					2			

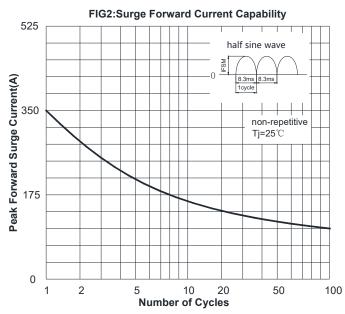
Note: Thermal Resistance mounted on P.C.B with 30mm*15mm*1.6mm

■Ordering Information (Example)

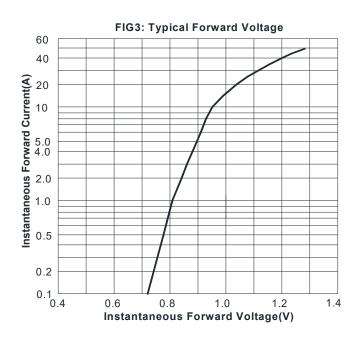
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
YBSN150005A - YBSN15010A	F1	Approximate 0.96	1500	1	21000	13" Reel

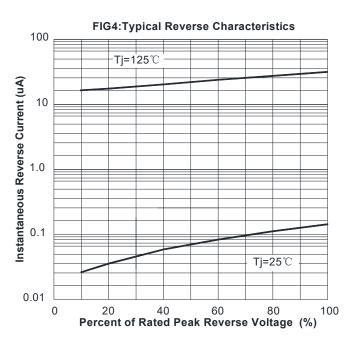
■ Characteristics (Typical)



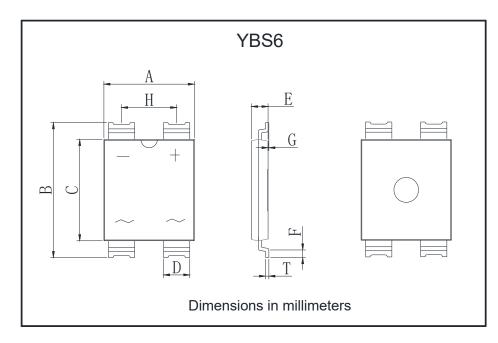








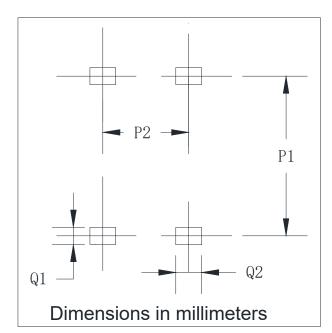
■ Outline Dimensions



YBS6						
Dim	Min	Max				
Α	10.70	11.30				
В	15.85	16.65				
С	11.70	12.30				
D	3.05	3.35				
E	1.80	2.20				
F	0.70	1.10				
G	0	0.20				
Н	6.55	6.85				
Т	0.35	0.55				



■ Suggested pad layout



YBS6				
Dim	Min			
P1	15.50			
P2	6.70			
Q1	1.00			
Q2	3.20			



Disclaimer

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