

Features

- 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: YBS

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	SYMBO	UNIT	YBS40005	YBS4001	YBS4002	YBS4004	YBS4006	YBS4008	YBS4010
Device marking code			YBS40005	YBS4001	YBS4002	YBS4004	YBS4006	YBS4008	YBS4010
Maximum Repetitive Peak Reverse Voltage	VRRM	٧	50	100	200	400	600	800	1000
Maximum RMS Voltage	VRMS	٧	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=100°C	Ю	Α				4.0			
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25°C	IFSM	Α	120						
Current squared time @1ms≤t<8.3ms Tj=25°C, Rating of per diode	l²t	A ² s	59.8						
Storage temperature	Tstg	℃	-55 ~ +150						
Junction temperature	Tj	℃	-55 ~ +150						

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

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PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	YBS40005	YBS4001	YBS4002	YBS4004	YBS4006	YBS4008	YBS4010		
Maximum instantaneous	VF	V	IFM=2.0A	1.0								
forward voltage drop per diode	VF	V	IFM=4.0A	1.1								
Maximum DC reverse current	۸		IDA		T _j =25℃				5			
at rated DC blocking voltage per diode	IR IR	μА	Tj =125°C				100	100				
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C				40					

YBS40005 THRU YBS4010

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

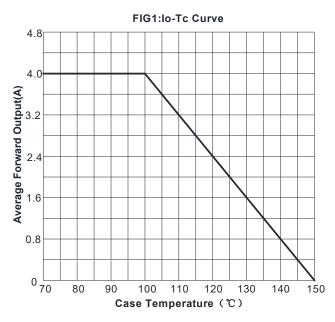
	PARAMETER	SYMBOL	UNIT	YBS40005	YBS4001	YBS4002	YBS4004	YBS4006	YBS4008	YBS4010
	Between Junction and Ambient	R ₀ J-A					55.0			
Typical Thermal Resistance	Between Junction and Lead	R ₀ J-L	°C/W				15.0			
. 100,010,100	Between Junction and Case	RøJ-C					10.0			

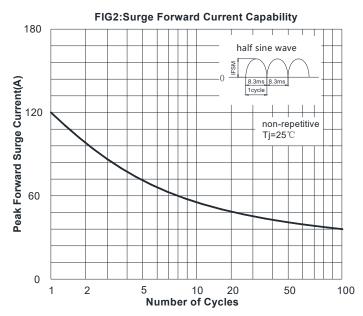
Note: Device mounted on P.C.B with 35mm*25mm*1.7mm.

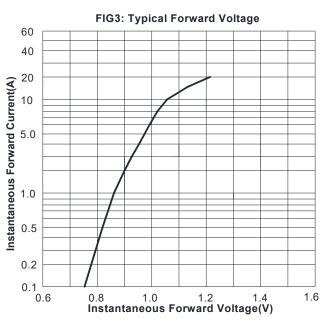
■Ordering Information (Example)

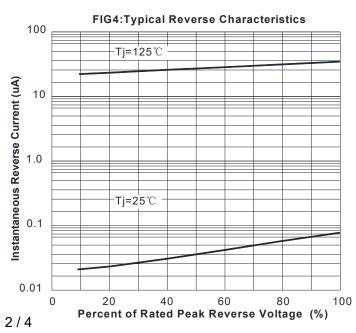
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
YBS40005-YBS4010	F1	Approximate 0.220	3000	1	42000	13" reel

■ Characteristics(Typical)





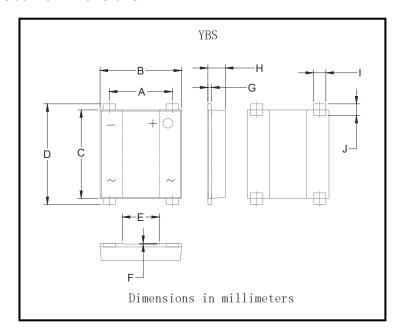






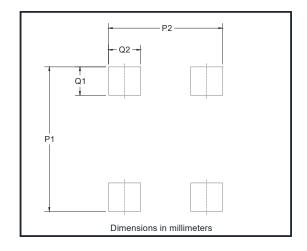
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■ Outline Dimensions



YBS					
Dim	Min	Max			
Α	5.00	5.20			
В	6.50	6.70			
С	7.20	7.40			
D	7.90	8.60			
Е	2.90	3.10			
F	0.04	0.08			
G	0.27	0.40			
Н	1.30	1.50			
I	0.95	1.15			
J	0.70	1.05			

■ Suggested pad layout



Dim	Min
P1	9.15
P2	7.10
Q1	1.80
02	2.00



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