

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: 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	SYMBOL	UNIT	YBS30005	YBS3001	YBS3002	YBS3004	YBS3006	YBS3008	YBS3010	
Device marking code			YBS30005	YBS3001	YBS3002	YBS3004	YBS3006	YBS3008	YBS3010	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	V	50	100	200	400	600	800	1000	
Maximum RMS Voltage	V _{RMS}	V	35	70	140	280	420	560	700	
Maximum DC blocking Voltage	V_{DC}	V	50	100	200	400	600	800	1000	
Average rectified output current @60Hz sine wave, R-load, Tc=110°C	Io	Α	3.0							
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25°C		Α	110							
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C	I _{FSM}		220							
Current squared time @1ms≤t<8.3ms Tj=25°C,Rating of per diode	l ² t	A ² s	50.2							
Storage temperature	T_{stg}	$^{\circ}$	-55 ~ +1 50							
Junction temperature	Tj	°C	-55 ~ + 150							

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	YBS30005	YBS3001	YBS3002	YBS3004	YBS3006	YBS3008	YBS3010
Maximum instantaneous forward voltage drop per diode	V _F	>	I _{FM} =1.5A	1.0						
Maximum DC reverse current at			Tj =25℃	Tj =25℃ 5						
rated DC blocking voltage per diode	I _R	μA	Tj =125℃	100						
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	e 34						

lacktriangleThermal Characteristics (T_a=25°C Unless otherwise specified)

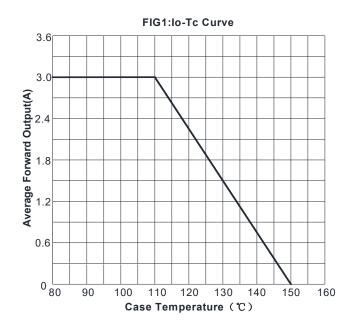
	PARAMETER		UNIT	YBS30005	YBS3001	YBS3002	YBS3004	YBS3006	YBS3008	YBS3010
	Between Junction and Ambient	R _{0J-A}		55.0						
Typical Thermal Resistance	Between Junction and Lead	R _{θJ-L}	°C/W				15.0			
. 135.344100	Between Junction and Case	R _{0J-C}		10.0						

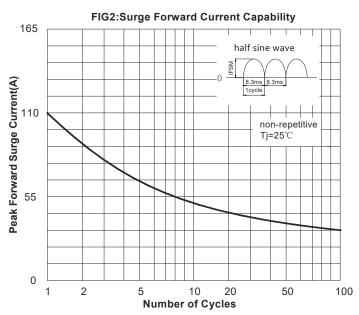
Note: Device mounted on P.C.B with 35mm*25mm*1.7mm.

■Ordering Information (Example)

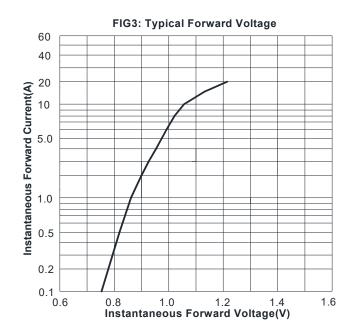
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
YBS30005-YBS3010	F1	Approximate 0.220	3000	1	42000	13" reel

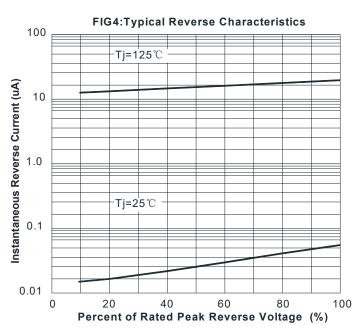
■ Characteristics(Typical)



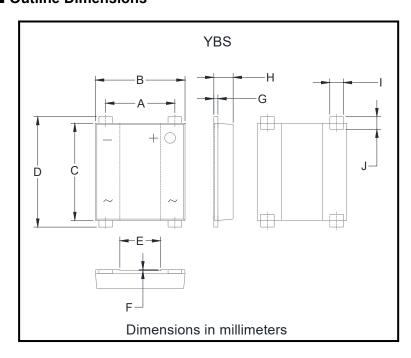








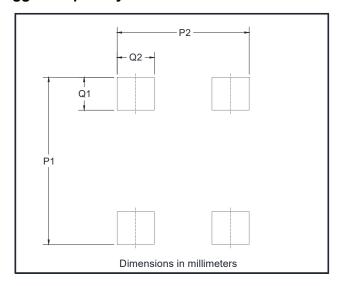
■ Outline Dimensions



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
Q2	2.00



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