

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 (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOI	UNIT	YBS30005A	YBS3001A	YBS3002A	YBS3004A	YBS3006A	YBS3008A	YBS3010A	
Device marking code			YBS30005A	YBS3001A	YBS3002	YBS3004A	YBS3006A	YBS3008A	YBS3010A	
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	٧	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}	٧	50	100	200	400	600	800	1000	
Average rectified output current @60Hz sine wave, R-load, Tc=110℃	Io	Α				3.0				
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25℃		120								
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25℃	I _{FSM}	Α	240							
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	YBS30005A	YBS3001A	YBS3002A	YBS3004A	YBS3006A	YBS3008A	YBS3010A
Maximum instantaneous forward voltage drop per diode	V _F	V	I _{FM} =1.5A	1.0						
Maximum DC reverse current at rated DC blocking voltage per		μA	Tj =25℃	5						
diode	I _R	μΑ	Tj =125℃	100						
Typical junction capacitance	Cj		Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	se 40						

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

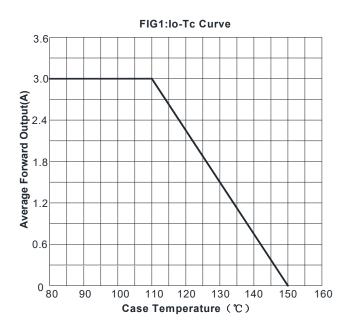
	PARAMETER	SYMBOL	UNIT	YBS30005A	YBS3001A	YBS3002A	YBS3004A	YBS3006A	YBS3008A	YBS3010A
	Between Junction and Ambient	$R_{\theta J\text{-}A}$		55.0						
Typical Thermal Resistance	Between Junction and Lead	$R_{\theta J\text{-}L}$	°C/W	15.0						
recipanies	Between Junction and Case	R _{θJ-C}					10.0			

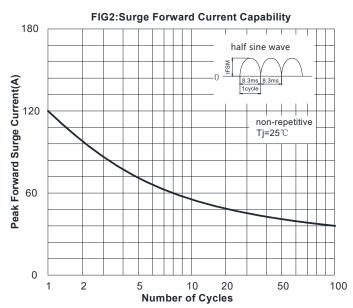
Note: Device mounted on P.C.B with 35mm*25mm*1.7mm.

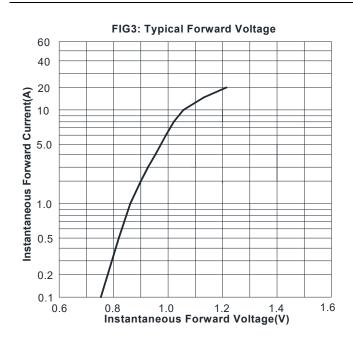
■Ordering Information (Example)

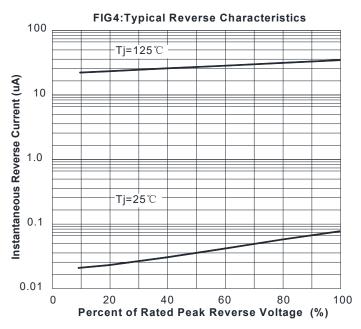
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
YBS30005A-YBS3010A	F1	Approximate 0.220	3000	1	42000	13" reel

■ Characteristics(Typical)

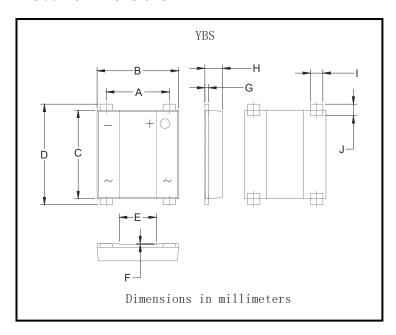






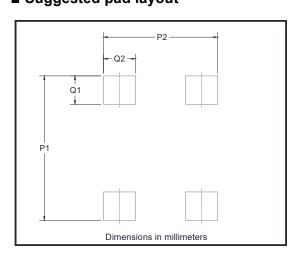


■ Outline Dimensions



YBS					
Min	Max				
5.00	5.20				
6.50	6.70				
7.20	7.40				
7.90	8.60				
2.90	3.10				
0.04	0.08				
0.27	0.40				
1.30	1.50				
0.95	1.15				
0.70	1.05				
	Min 5.00 6.50 7.20 7.90 2.90 0.04 0.27 1.30 0.95				

■ Suggested pad layout



Dim	Min
P1	9.15
P2	7.10
Q1	1.80
Q2	2.00



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