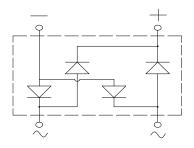


Bridge Rectifiers





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: YBS

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 (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	YBS22005	YBS2201	YBS2202	YBS2204	YBS2206	YBS2208	YBS2210	
Device marking code			YBS22005	YBS2201	YBS2202	YBS2204	YBS2206	YBS2208	YBS2210	
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℃	Io	Α	2.2							
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25°C		Α	90							
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C	I _{FSM}		180							
Current squared time @1ms≤t<8.3ms Tj=25°C,Rating of per diode	l ² t	A ² s	33.6							
Storage temperature	T_{stg}	°C	-55 ~ +150							
Junction temperature	Tj	°C	-55 ~ + 150							



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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	YBS22005	YBS2201	YBS2202	YBS2204	YBS2206	YBS2208	YBS2210
Maximum instantaneous forward voltage drop per diode	V _F	٧	I _{FM} =1.1A	1.0						
Maximum DC reverse current at rated DC blocking voltage per			Tj =25℃	Tj =25°C 5						
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	34						

■Thermal Characteristics $(T_a=25 \degree C \text{ Unless otherwise specified})$

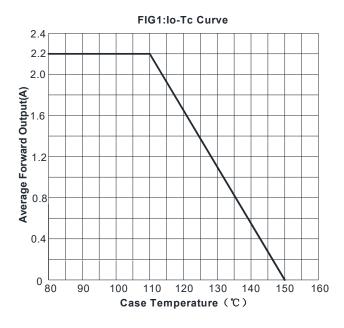
	PARAMETER		UNIT	YBS22005	YBS2201	YBS2202	YBS2204	YBS2206	YBS2208	YBS2210
	Between Junction and Ambient	R _{θJ-A}		55.0						
Typical Thermal Resistance	Between Junction and Lead	R _{θJ-L}	R _{θJ-L} ℃/W	V 15.0						
	Between Junction and Case	R _{0J-C}		10.0						

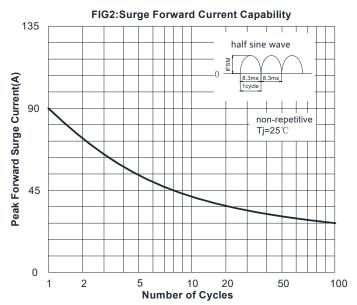
Note: Device mounted on P.C.B with 35mm*25mm*1.7mm.

■Ordering Information (Example)

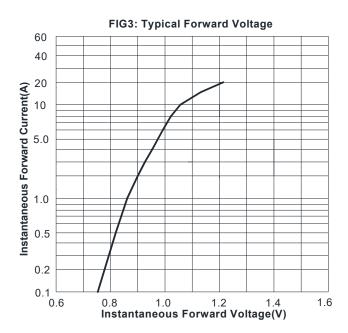
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
YBS22005-YBS2210	F1	Approximate 0.220	3000	1	42000	13" reel

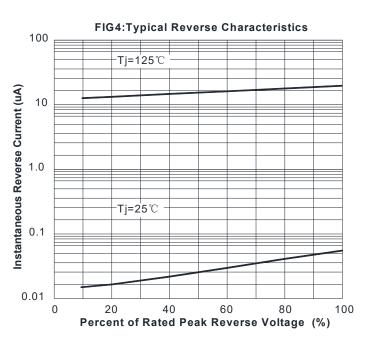
■ Characteristics(Typical)



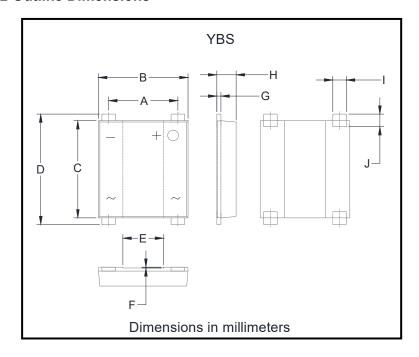








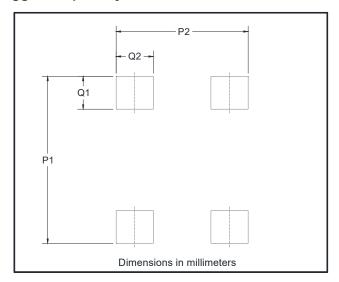
■ Outline Dimensions



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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