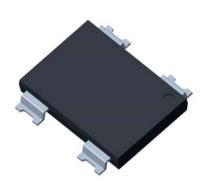
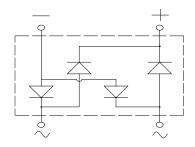




Bridge Rectifiers





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: YBS2G

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	YMBO	INIT	YBSA30005A	YBSA3001A	YBSA3002A	YBSA3004A	YBSA3006A	YBSA3008A	YBSA3010A		
TAKAMETEK	T III DO	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	12071000071	120/10001/1	. 20/10002/1	120/1000 1/1	. 20, 10000, 1	. 20/10000/1	120/10010/1		
Device marking code			YBSA30005A	YBSA3001A	YBSA3002A	YBSA3004A	YBSA3006A	YBSA3008A	YBSA3010A		
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=115°C	Ю	Α	3.0								
Forward Surge Current (Non- repetitive) @8.3ms Half-sine wave,1 cycle, Tj=25°C	IFSM	A	120								
Forward Surge Current (Non- repetitive) @1ms, square wave, 1 cycle, Tj=25°C	1 0	,	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	°C	-55 ~ +150								

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

PARAMETER	ҮМВО	UNIT	TEST CONDITIONS	YBSA30005A	YBSA3001A	YBSA3002A	YBSA3004A	YBSA3006A	YBSA3008A	YBSA3010A
Maximum instantaneous forward voltage drop per diode		V	IFM=1.5A				1.0			
Maximum DC reverse current	IR	μA	T _j =25℃				5			
at rated DC blocking voltage per diode	ır.	μΛ	Tj=125°C	100						
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C				40			

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

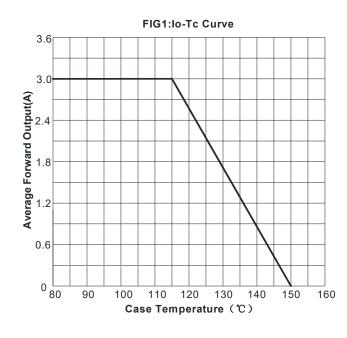
	PARAMETER	ҮМВО	UNIT	YBSA30005A	YBSA3001A	YBSA3002A	YBSA3004A	YBSA3006A	YBSA3008A	YBSA3010A
	Between Junction and Ambient	R _{θJ-A}		55						
Typical Thermal Resistance	Between Junction and Lead	R _{θJ-L}	°C/W	11						
	Between Junction and Case	R _{θJ-C}		7						

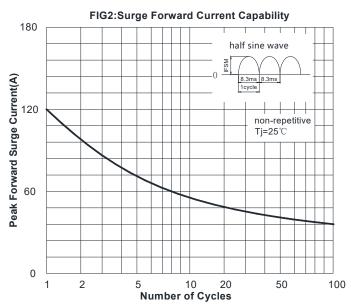
Note: Device mounted on P.C.B with 35mm*25mm*1.7mm.

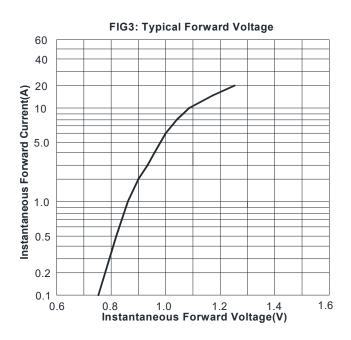
■Ordering Information (Example)

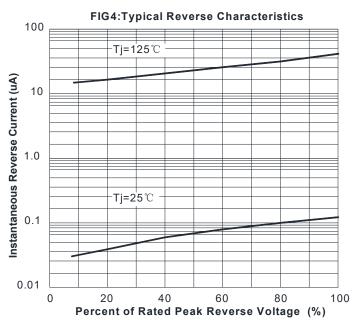
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
YBSA30005A-YBSA3010A	F1	Approximate 0.274	2500	1	35000	13" reel

■ Characteristics (Typical)

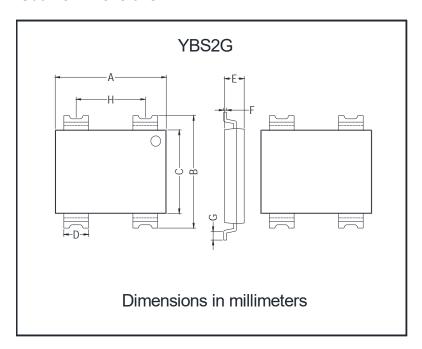






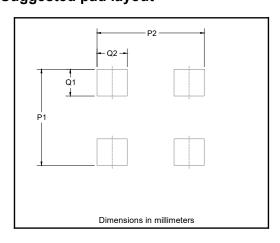


■ Outline Dimensions



YBS2G					
Dim	Min	Max			
Α	8.6	9.2			
В	8.3	8.9			
С	6.2	6.6			
D	1.85	2.15			
E	1.35	1.75			
F	0.1	0.3			
G	0.4	0.8			
Н	5.4	5.8			

■ Suggested pad layout



YBS2G			
Dim	Min		
P1	11		
P2	7.8		
Q1	2.4		
Q2	2.2		

3/4



Disclaimer

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