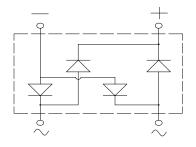


# **Bridge Rectifiers**





#### **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, -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	YBSA20005	YBSA2001	YBSA2002	YBSA2004	YBSA2006	YBSA2008	YBSA2010	
Device marking code			YBSA20005	YBSA2001	YBSA2002	YBSA2004	YBSA2006	YBSA2008	YBSA2010	
Maximum Repetitive Peak Reverse Voltage	VRRM	V	50	100	200	400	600	800	1000	
Maximum RMS Voltage	VRMS	V	35	70	140	280	420	560	700	
Maximum DC blocking Voltage	VDC	V	50	100	200	400	600	800	1000	
Average rectified output current @60Hz sine wave, R-load, Tc=120°C	IO	Α			•	2				
Forward Surge Current (Non-repetitive) @8.3ms Half-sine wave,1 cycle, Tj=25°C	Isou	А	80							
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C	IFSM		160							
Current squared time @1ms≤t≤8.3ms Tj=25℃,Rating of per diode	l²t	A <sup>2</sup> s				26.6				
Storage temperature	T <sub>stg</sub>	°C	-55 ~ +150							
Junction temperature	Tj	°C	-55 ~ +150							

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	YBSA20005	YBSA2001	YBSA2002	YBSA2004	YBSA2006	YBSA2008	YBSA2010
Maximum instantaneous forward voltage drop per diode	VF	٧	IFM=1.0A 1.0		)					
Maximum DC reverse current			T <sub>j</sub> =25°C	5						
at rated DC blocking voltage per diode	יול	μA	Tj =125°C	100						
Typical junction capacitance	Cj	ьE	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	26						

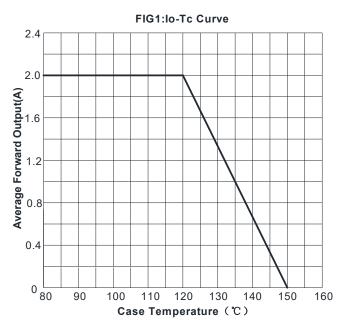


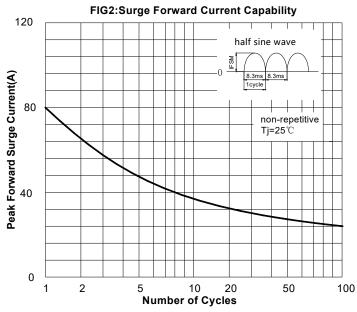
## **Thermal Characteristics** $(T_a=25^{\circ}\mathbb{C} \text{ Unless otherwise specified})$

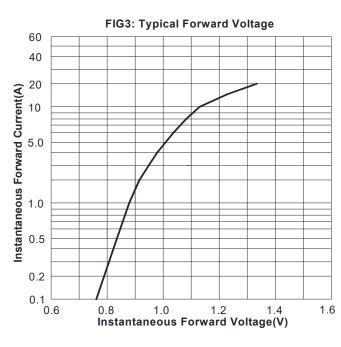
	PARAMETER	SYMBOL	UNIT	YBSA20005	YBSA2001	YBSA2002	YBSA2004	YBSA2006	YBSA2008	YBSA2010	
	Between Junction and Ambient	R <sub>0J-A</sub>					50				
Typical Thermal Resistance	Between Junction and Lead	R <sub>θJ-L</sub>	°C/W	11							
	Between Junction and Case	R <sub>0J-C</sub>					7				

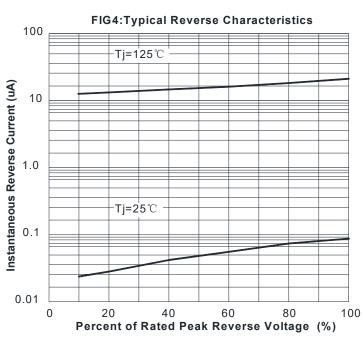
Note: Device mounted on P.C.B with 35mm\*25mm\*1.7mm.

## **■ Characteristics** (Typical)



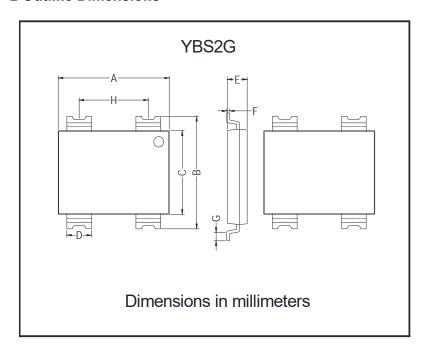






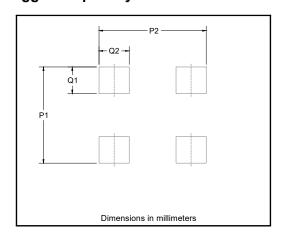


## **■ Outline Dimensions**



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			



#### **Disclaimer**

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