

# **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	SYMBOL	UNIT	YBSA20005	YBSA2001	YBSA2002	YBSA2004	YBS2006	YBSA2008	YBSA2010
Device marking code			YBSA20005	YBSA2001	YBSA2002	YBSA2004	YBS2006	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℃	IO	А				2			
Forward Surge Current (Non-repetitive) @8.3ms Half-sine wave,1 cycle, Tj=25°C Forward Surge Current (Non-repetitive)	IFSM	A				80			
@1ms, square wave, 1 cycle, Tj=25℃ Current squared time @1ms≤t≤8.3ms Tj=25℃,Rating of per diode	l²t	A <sup>2</sup> s	160 26.6						
Storage temperature	Tstg	°C	-55 ~ +150						
Junction temperature	Tj	°C	-55 ~ +150						

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	YBSA20005	YBSA2001	YBSA2002	YBSA2004	YBS2006	YBSA2008	YBSA2010
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=1.0A				1.0			
Maximum DC reverse current at rated DC blocking voltage	IR	μA	Tj =25℃	5						
per diode	0 0 1		Tj =125℃	100						
Typical junction capacitance	Cj	nF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	pplied 26						

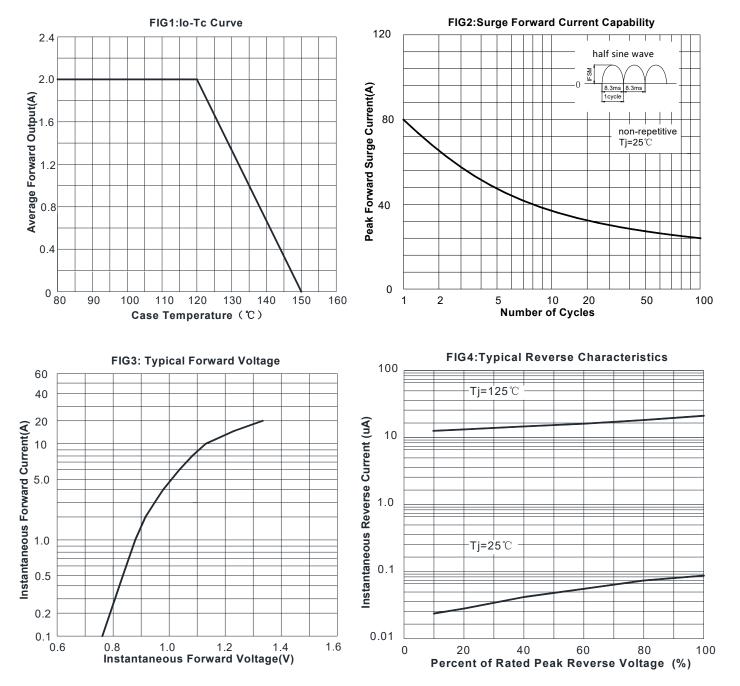


	PARAMETER	SYMBOL	UNIT	YBSA20005	YBSA2001	YBSA2002	YBSA2004	YBSA2006	YBSA2008	YBSA2010	
	Between Junction and Ambient	$R_{\theta J-A}$					50				
Typical Thermal Resistance	Between Junction and Lead	R <sub>θJ-L</sub>	°C/W	11							
Tesistanee	Between Junction and Case	$R_{ extsf{ heta}J\text{-}C}$					7				

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

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

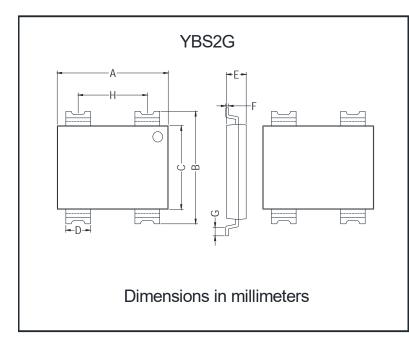
## Characteristics (Typical)



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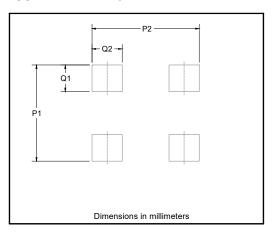


## Outline Dimensions



YBS2G						
Dim	Min	Max				
А	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	2.0			

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