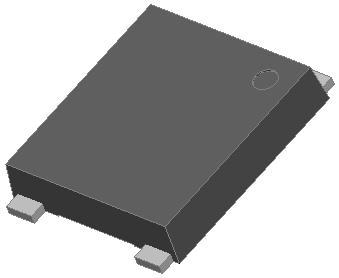
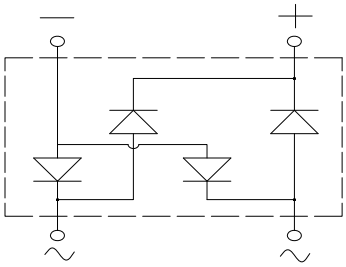
Bridge Rectifiers





Features

- 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℃ Unless otherwise specified）

PARAMETER	SYMBOL	UNIT	YBS20005	YBS2001	YBS2002	YBS2004	YBS2006	YBS2008	YBS2010
Device marking code			YBS20005	YBS2001	YBS2002	YBS2004	YBS2006	YBS2008	YBS2010
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℃	I_O	A	2.0						
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25℃	I_{FSM}	A	75						
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25℃			150						
Current squared time @1ms≤t<8.3ms Tj=25℃， Rating of per diode	I^2t	A^2s	23.3						
Storage temperature	T_{stg}	℃	-55 ~ +150						
Junction temperature	Tj	℃	-55 ~ +150						

■Electrical Characteristics（T_a=25℃ Unless otherwise specified）

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	YBS20005	YBS2001	YBS2002	YBS2004	YBS2006	YBS2008	YBS2010
Maximum instantaneous forward voltage drop per diode	V_F	V	I_{FM}=1.0A	1.0						
Maximum DC reverse current at rated DC blocking voltage per diode	I_R	μA	Tj =25℃	5						
			Tj =125℃	100						
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	26						

■Thermal Characteristics （T_a=25℃ Unless otherwise specified）

PARAMETER		SYMBOL	UNIT	YBS20005	YBS2001	YBS2002	YBS2004	YBS2006	YBS2008	YBS2010
Typical Thermal Resistance	Between Junction and Ambient	$R_{\theta J-A}$	℃/W	55.0						
	Between Junction and Lead	$R_{\theta J-L}$		15.0						
	Between Junction and Case	$R_{\theta J-C}$		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
YBS20005-YBS2010	F1	Approximate 0.218	3000	/	42000	13” reel

■ Characteristics(Typical)

FIG1:Io-Tc Curve

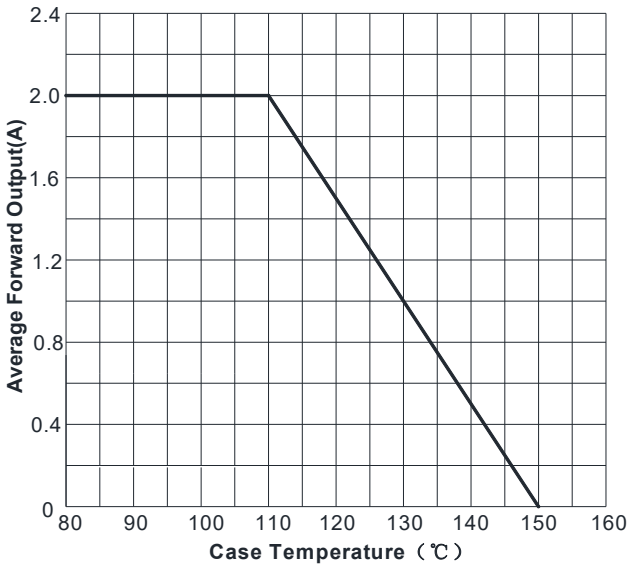


FIG2:Surge Forward Current Capability

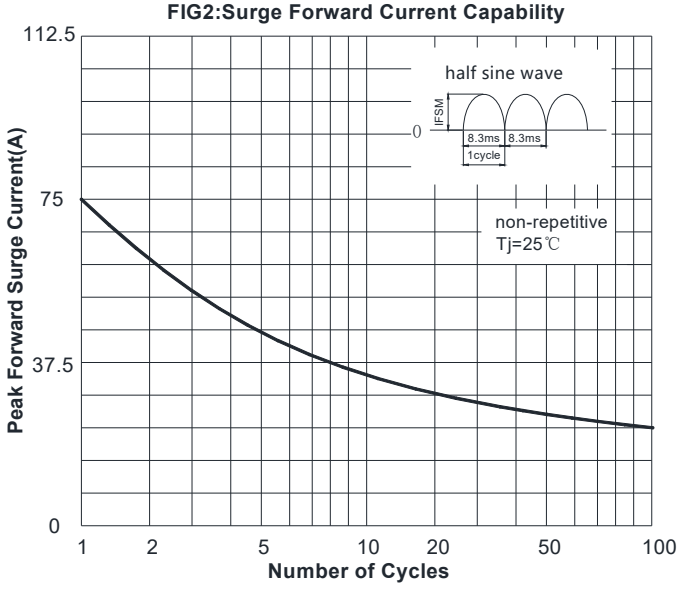


FIG3: Typical Forward Voltage

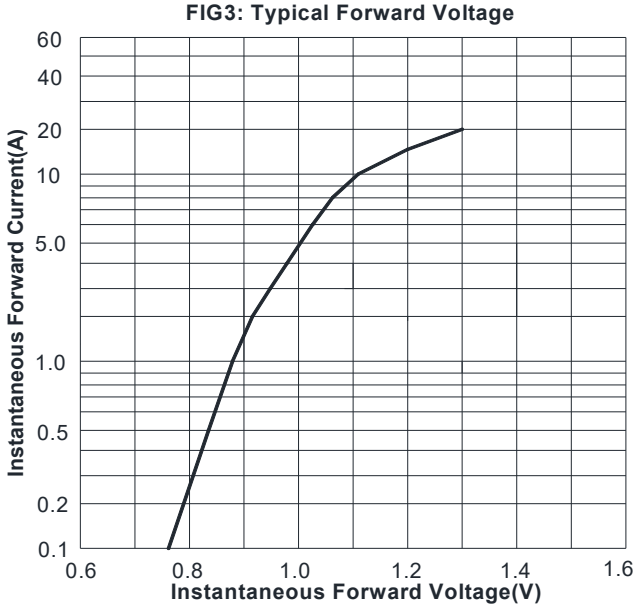
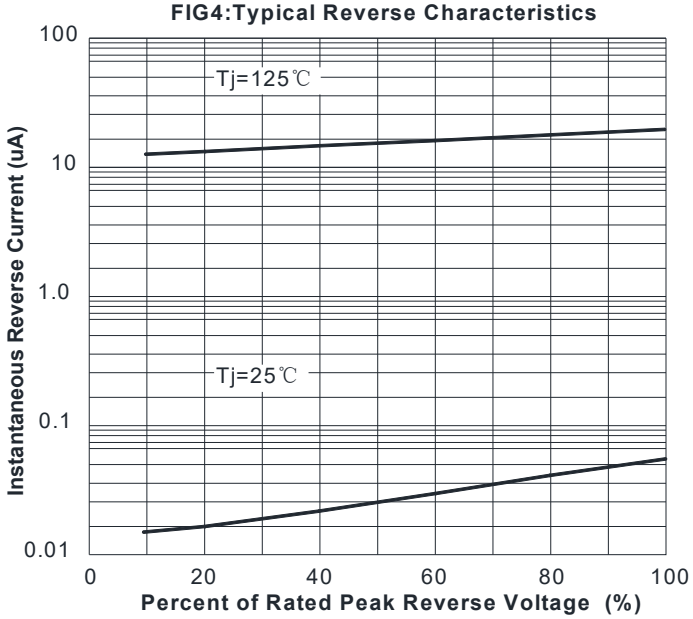
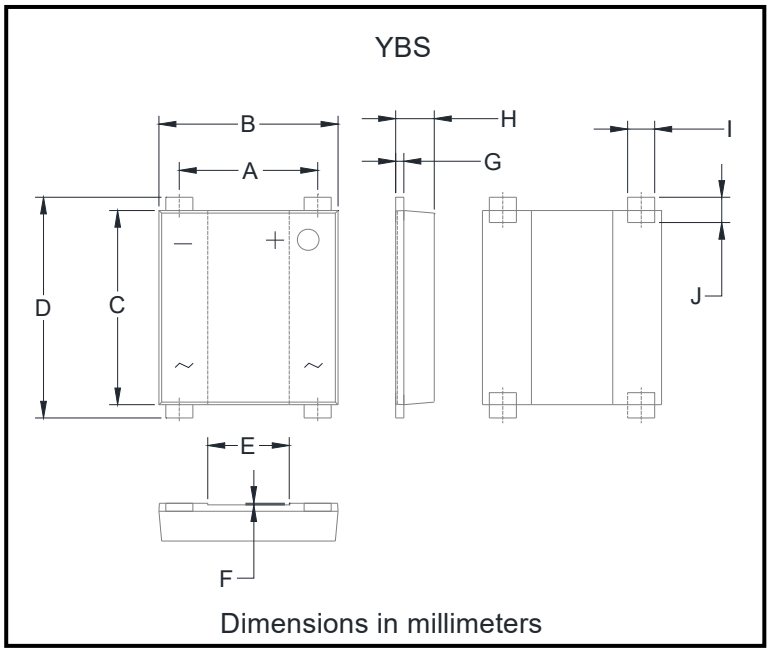


FIG4:Typical Reverse Characteristics

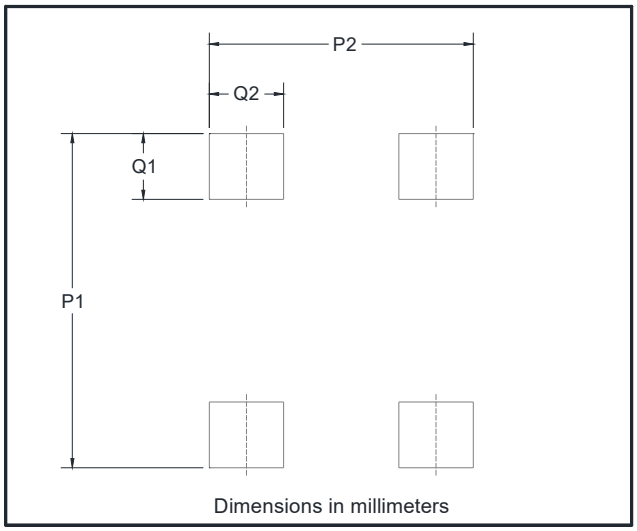


■ Outline Dimensions



YBS		
Dim	**Min**	**Max**
A	5.00	5.20
B	6.50	6.70
C	7.20	7.40
D	7.90	8.60
E	2.90	3.10
F	0.04	0.08
G	0.27	0.40
H	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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