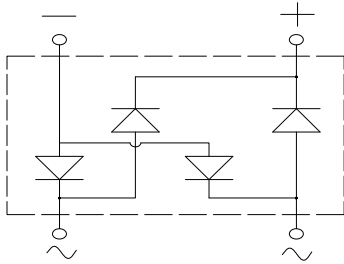
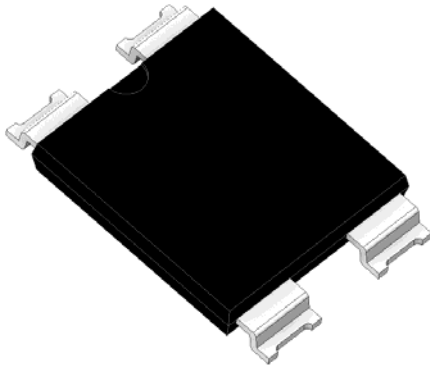


Bridge Rectifiers



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:** YBS6
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	YBSN100005	YBSN10001	YBSN10002	YBSN10004	YBSN10006	YBSN10008	YBSN10010
Device marking code			YBSN100005	YBSN10001	YBSN10002	YBSN10004	YBSN10006	YBSN10008	YBSN10010
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=118°C	Io	A	10						
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, Tj=25°C	IFSM	A	250						
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C			500						
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	I²t	A²s	260						
Storage temperature	Tstg	°C	-55 ~ +150						
Junction temperature	Tj	°C	-55 ~ +150						



YBSN10005 THRU YBSN10010

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	YBSN100005	YBSN10001	YBSN10002	YBSN10004	YBSN10006	YBSN10008	YBSN10010
Maximum instantaneous forward voltage drop per diode	V _F	V	I _{FM} =5.0A				1.0			
Maximum DC reverse current at rated DC blocking voltage per diode	I _R	μA	T _j =25°C				5			
			T _j =125°C				100			
Typical junction capacitance	C _j	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C				82			

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

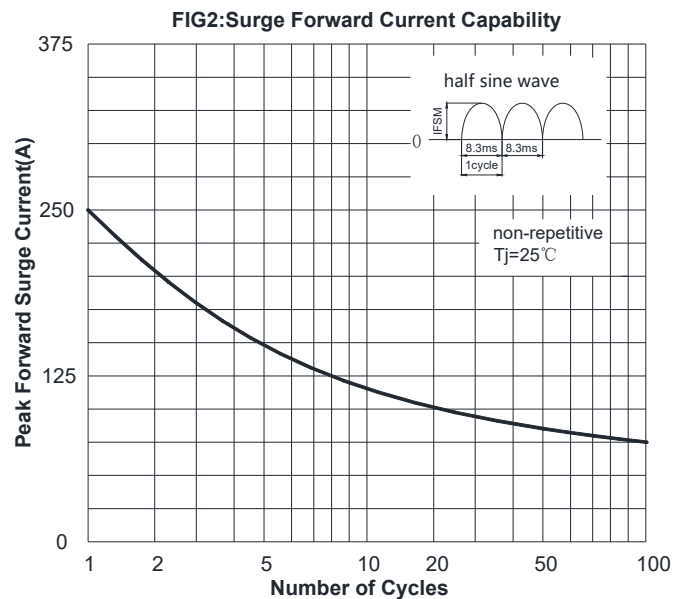
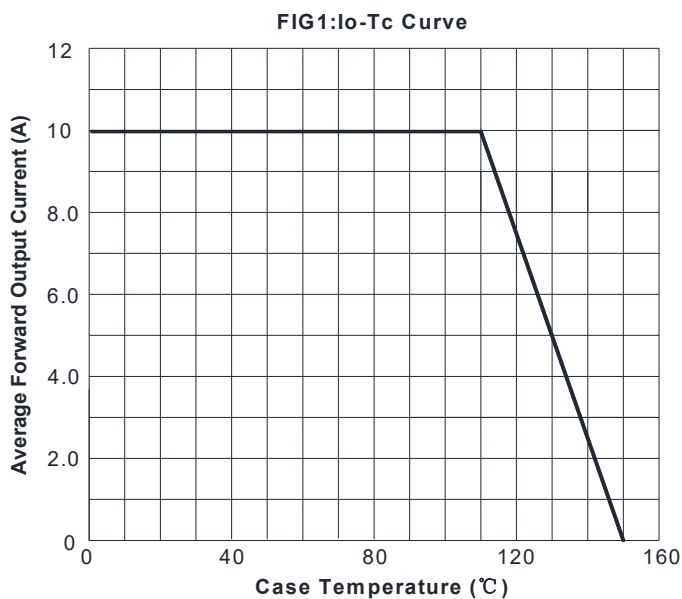
PARAMETER		SYMBOL	UNIT	YBSN100005	YBSN10001	YBSN10002	YBSN10004	YBSN10006	YBSN10008	YBSN10010
Typical Thermal Resistance	Between Junction and Ambient	R _{θJ-A}	°C/W				50			
	Between Junction and Lead	R _{θJ-L}					10			
	Between Junction and Case	R _{θJ-C}					2			

Note: Thermal Resistance mounted on P.C.B with 30mm*15mm*1.6mm

■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
YBSN100005 - YBSN10010	F1	Approximate 0.96	1500	/	21000	13" Reel

■ Characteristics (Typical)





YBSN100005 THRU YBSN10010

FIG3: Typical Forward Voltage

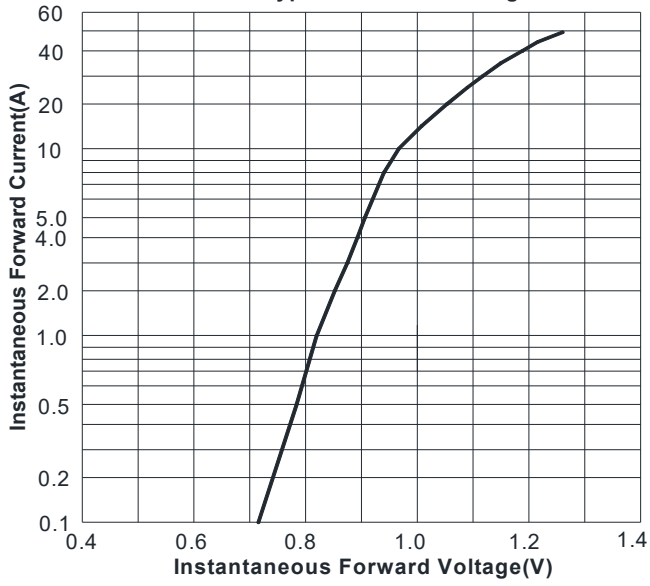
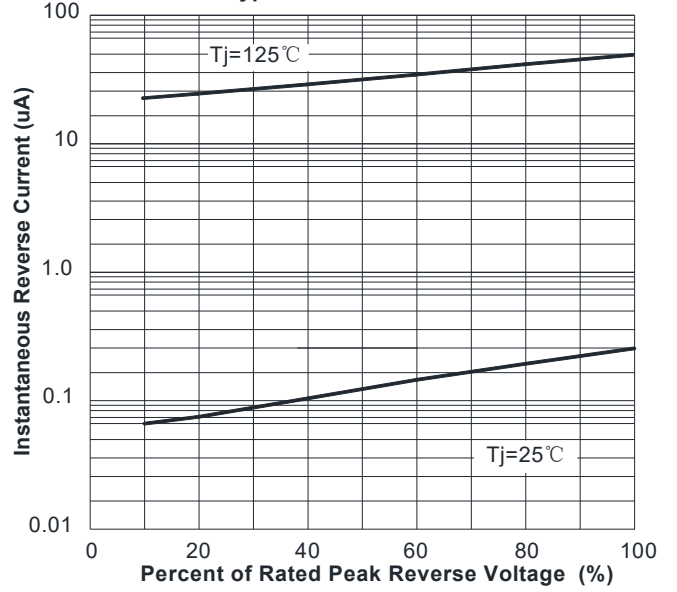
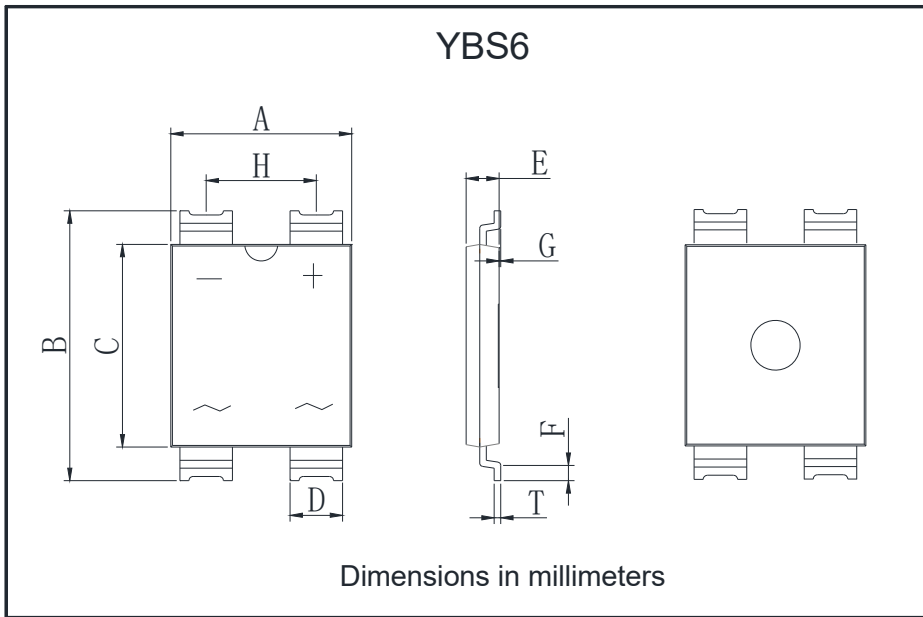


FIG4: Typical Reverse Characteristics



■ Outline Dimensions

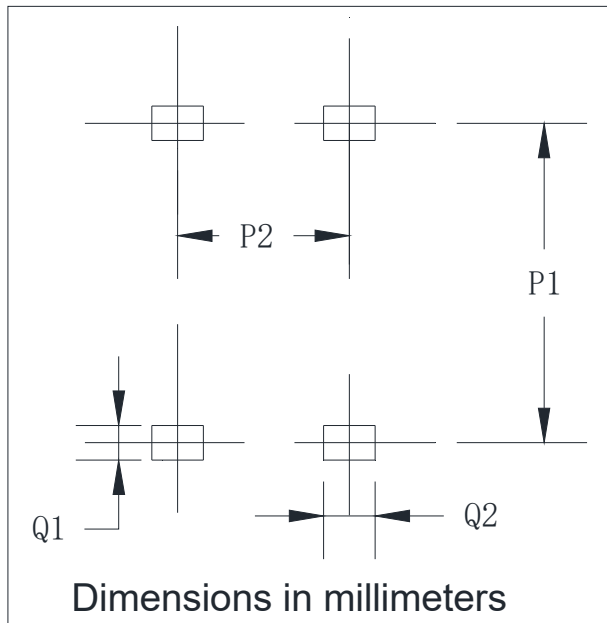


YBS6		
Dim	Min	Max
A	10.70	11.30
B	15.85	16.65
C	11.70	12.30
D	3.05	3.35
E	1.80	2.20
F	0.70	1.10
G	0	0.20
H	6.55	6.85
T	0.35	0.55



YBSN100005 THRU YBSN10010

■ Suggested pad layout



YBS6	
Dim	Min
P1	15.50
P2	6.70
Q1	1.00
Q2	3.20



YBSN100005 THRU YBSN10010

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