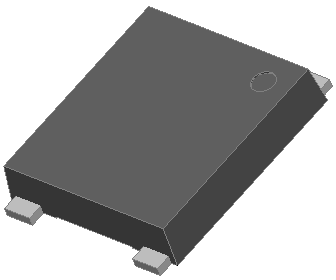
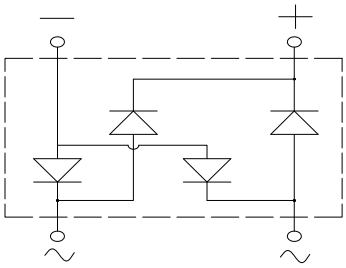
Bridge Rectifiers





Features

- UL recognition, file #E313149
- 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	YBS30005	YBS3001	YBS3002	YBS3004	YBS3006	YBS3008	YBS3010
Device marking code			YBS30005	YBS3001	YBS3002	YBS3004	YBS3006	YBS3008	YBS3010
Repetitive peak reverse voltage	V_{RRM}	V	50	100	200	400	600	800	1000
Average rectified output current @60Hz sine wave, R-load, Tc=110℃	I_O	A	3.0						
Surge(non-repetitive)forward current @60HZ half sine wave, 1 cycle, Tj=25℃	I_{FSM}	A	110						
Current squared time @1ms≤t<8.3ms Tj=25℃, Rating of per diode	I^2t	A^2s	50.21						
Storage temperature	Tstg	℃	-55 ~+150						
Junction temperature	Tj	℃	-55 ~+150						

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	YBS30005	YBS3001	YBS3002	YBS3004	YBS3006	YBS3008	YBS3010
Maximum instantaneous forward voltage drop per diode	V_F	V	I_{FM}=1.5A	1.00						
Maximum DC reverse current at rated DC blocking voltage per diode @ VRM=VRRM	I_{RRM}	μA	Tj=25℃	5						
			Tj=100℃	100						

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

PARAMETER		SYMBOL	UNIT	YBS30005	YBS3001	YBS3002	YBS3004	YBS3006	YBS3008	YBS3010
Thermal Resistance	Between Junction and Ambient,	RθJ-A	℃/W	55.0						
	Between Junction and Lead	RθJ-L		15.0						
	Between Junction and Case	R θ J-C		10.0						

■Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
YBS30005-YBS3010	F1	Approximate 0.220	3000	6000	42000	13” reel

■ Characteristics(Typical)

FIG1:Io-Tc Curve

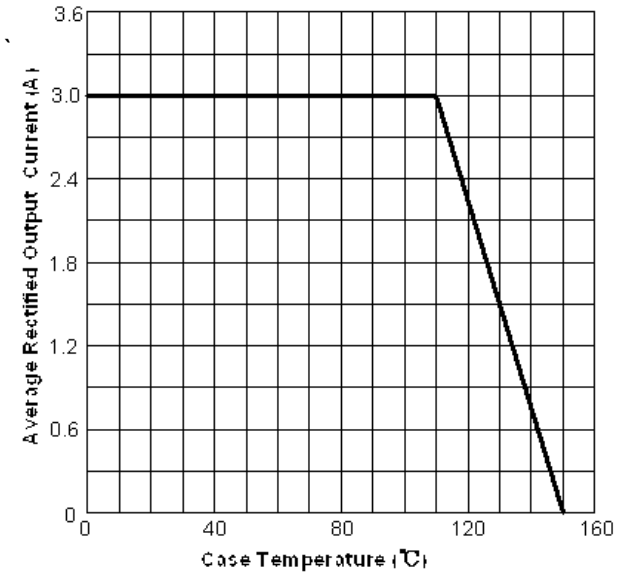


FIG2:Surge Forward Current Capability

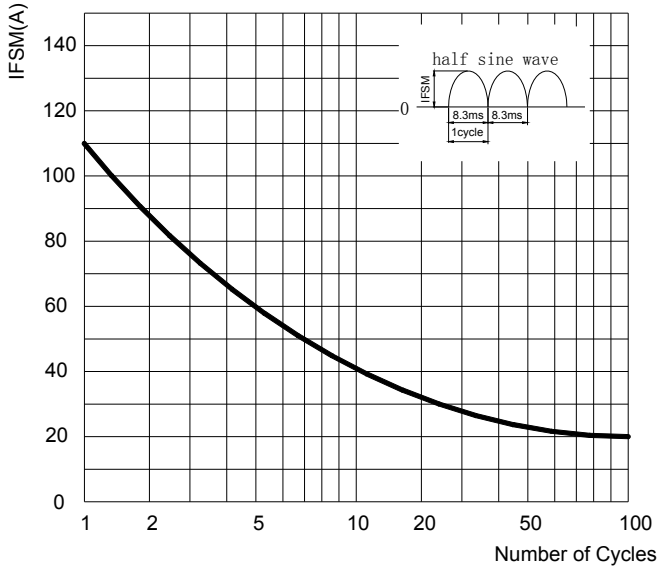


FIG3: Forward Voltage

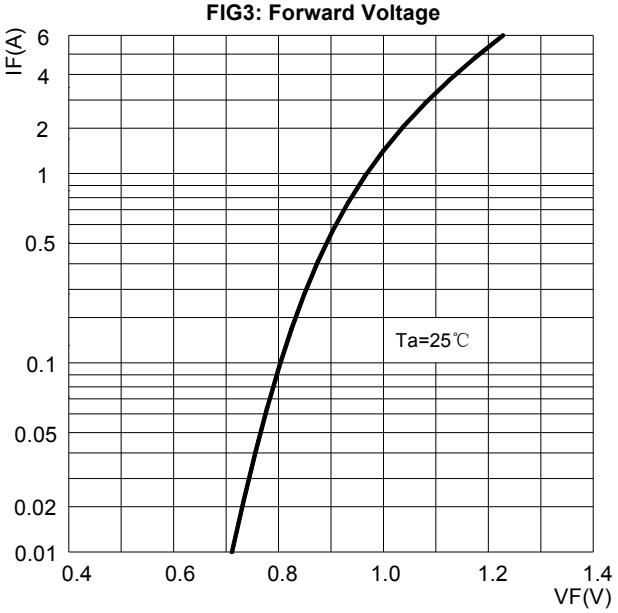
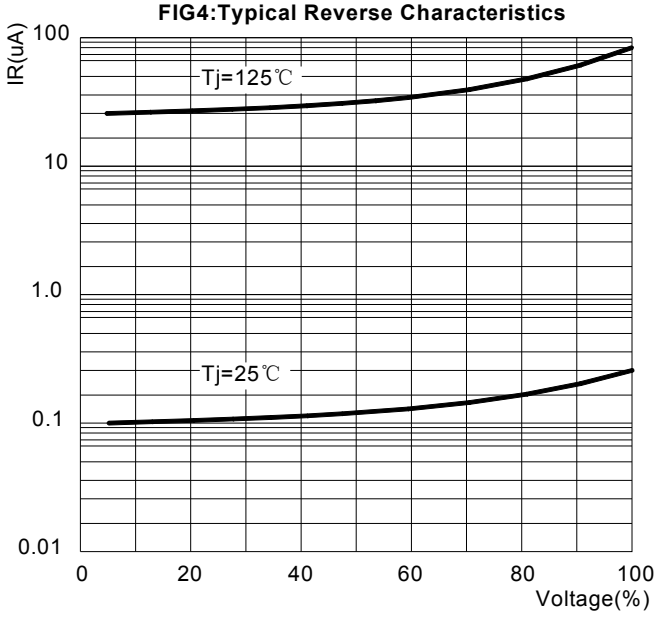
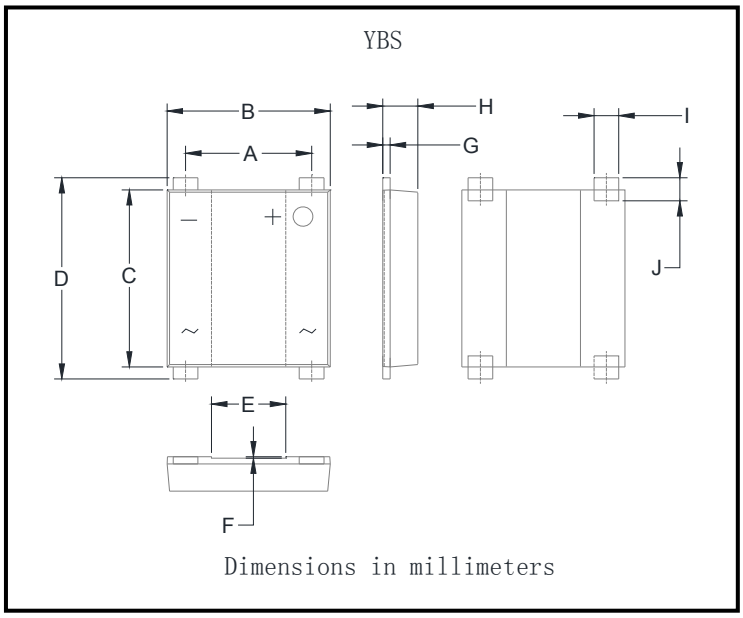


FIG4:Typical Reverse Characteristics

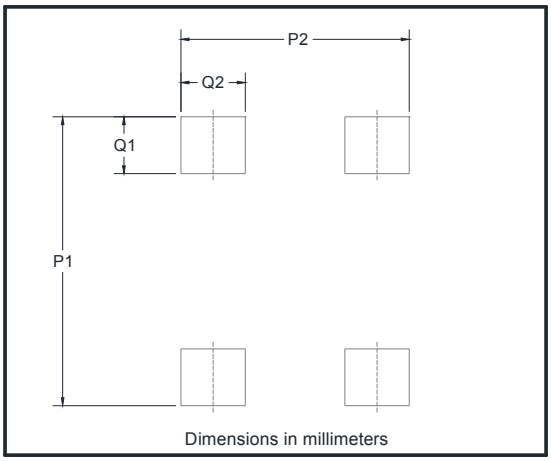


■ Outline Dimensions



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