

Bridge Rectifiers

Features

- 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: YBS4

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, Halogen-free

• Terminals: Tin plated leads, solderable per

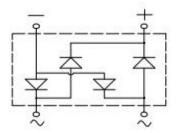
J-STD-002 and JESD22-B102
• Polarity: As marked on body

• Soldering Method: Recommend IR reflow, No wave

soldering







■Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	sүмво	UNIT	YBSL40005	YBSL4001	YBSL4002	YBSL4004	YBSL4006	YBSL4008	YBSL4010
Device marking code			YBSL40005	YBSL4001	YBSL4002	YBSL4004	YBSL4006	YBSL4008	YBSL4010
Repetitive peak reverse voltage	VRRM	٧	50	100	200	400	600	800	1000
Average rectified output current @60Hz sine wave, R-load, Tc=110℃	Ю	Α				4.0			
Surge(non-repetitive)forward current @60HZ sine wave, 1 cycle, Tj=25℃	IFSM	Α	110						
Current squared time @1ms≤t<8.3ms Tj=25°C,Rating of per diode	l ² t	A ² s				50.2			
Storage temperature	Tstg	$^{\circ}$				-55 ~+150			
Junction temperature	Tj	$^{\circ}$	-55 ~+150						

■Electrical Characteristics $(T_a=25^{\circ}\mathbb{C} \text{ Unless otherwise specified})$

PARAMETER	УМВО	UNIT	TEST CONDITIONS	YBSL40005YBSL4001YBSL4002YBSL4004YBSL4006YBSL4008YBSL40					
Maximum instantaneous forward	VF	>	IFM=2.0A	1.0					
voltage drop per diode			IFM=4.0A	1.1					
Maximum DC reverse current at rated DC blocking voltage per diode	IDDM		Tj=25℃	5					
@ VRM=VRRM	יואאיי	μA	Tj=125℃	500					

YBSL40005 THRU YBSL4010

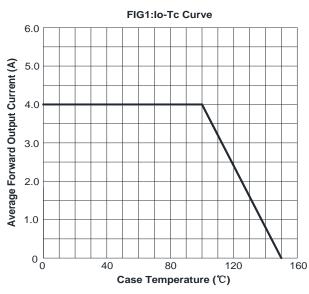
■Thermal Characteristics (T_a=25°C Unless otherwise specified)

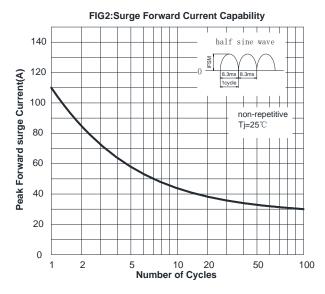
P.	ARAMETER	SYMBOL	UNIT	YBSL40005	YBSL4001	YBSL4002	YBSL4004	YBSL4006	YBSL4008	YBSL4010
	Between Junction and Ambient,	RøJ-A		32						
Thermal Resistance	Between Junction and Lead	RθJ-L	°C/W	18						
	Between Junction and Case	R θ J-C		15						

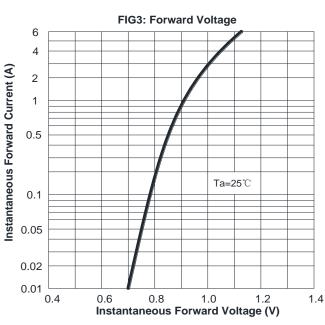
■Ordering Information (Example)

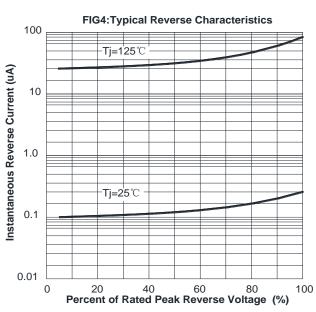
PREI	FERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
YBSL400	005-YBSL4010	F1	Approximate 0.40	2500	5000	35000	13" reel

■ Characteristics(Typical)



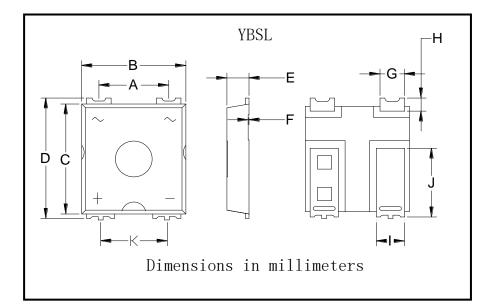






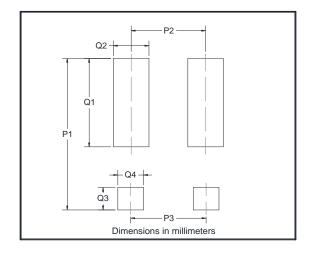
YBSL40005 THRU YBSL4010

■ Outline Dimensions



YBS4					
Dim	Min	Max			
Α	5.60	5.80			
В	8.30	8.70			
С	9.00	9.40			
D	10.15	10.55			
Е	1.70	1.90			
F	0.02	0.12			
G	1.90	2.10			
Н	0.20	1.00			
I	2.20	2.40			
J	5.80	6.20			
K	5.30	5.50			

■ Suggested pad layout



YBS4				
Dim	Min			
P1	10.80			
P2	5.40			
P3	5.70			
Q1	6.30			
Q2	2.50			
Q3	1.60			
Ω4	1.80			



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