

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: YBS3

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)

9 (a									
PARAMETER	SYMBOL	UNIT	YBSM40005	YBSM4001	YBSM4002	YBSM4004	YBSM4006	YBSM4008	YBSM4010
Device marking code			YBSM40005	YBSM4001	YBSM4002	YBSM4004	YBSM4006	YBSM4008	YBSM4010
Repetitive peak reverse voltage	V_{RRM}	V	50	100	200	400	600	800	1000
Average rectified output current @60Hz sine wave, R-load, Tc=100℃	Io	Α				4.0			
Surge(non-repetitive)forward current @60Hz sine wave, 1 cycle, Tj=25°C	I _{FSM}	Α	120						
Current squared time @1ms≤t≤8.3ms Tj=25℃,Rating of per diode	l²t	A ² s	60						
Storage temperature	T_{stg}	$^{\circ}$	-55 ~+150						
Junction temperature	Tj	$^{\circ}$	-55 ~+150						

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	YBSM40005	YBSM4001	YBSM4002	YBSM4004	YBSM4006	YBSM4008	YBSM4010
Maximum instantaneous forward voltage drop per diode	V _F	>	I _{FM} =2.0A				1.0			
Maximum DC reverse current at rated DC blocking voltage per diode	I _{RRM}	μA	Tj=25°C @ V _{RM} =V _{RRM}				5			



■Thermal Characteristics $(T_a=25 \degree C \text{ Unless otherwise specified})$

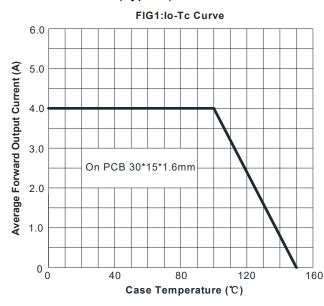
	PARAMETER	SYMBOL	UNIT	YBSM40005	YBSM4001	YBSM4002	YBSM4004	YBSM4006	YBSM4008	YBSM4010
	Between Junction and Ambient	$R_{\theta J\text{-}A}$		55 ⁽¹⁾						
Thermal Resistance	Between Junction and Lead	$R_{\theta J\text{-}L}$	°C/W	10 ⁽¹⁾						
	Between Junction and Case	$R_{\theta J\text{-}C}$					5 ⁽¹⁾			

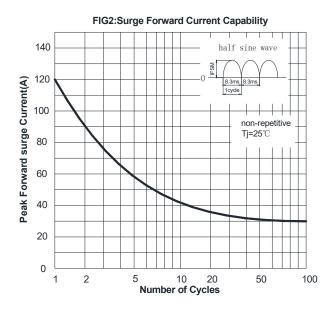
Note: (1)Thermal Resistance mounted on P.C.B with 30mm*15mm.*1.6mm

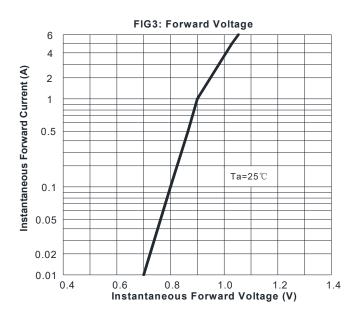
■Ordering Information (Example)

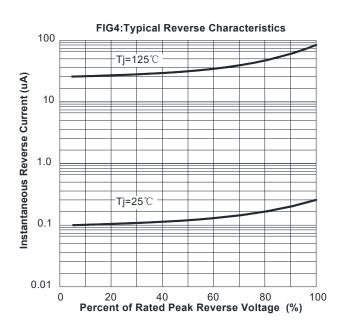
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
YBSM40005 THRU YBSM4010	F1	Approximate 0.35	1800	3600	25200	13" Reel

■ Characteristics (Typical)



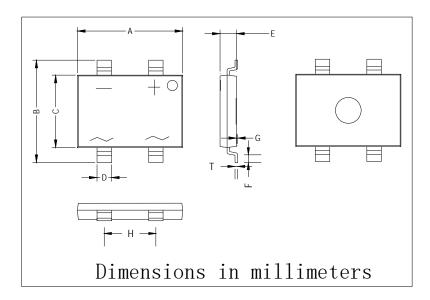






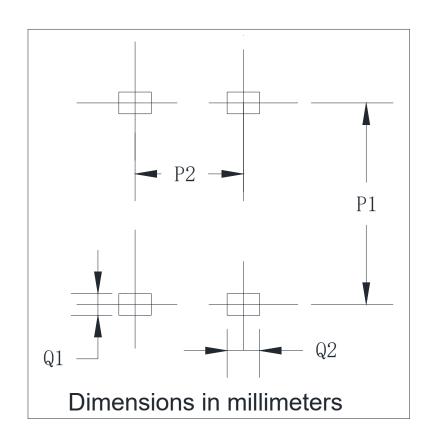


■ Outline Dimensions



YBS3					
Dim	Min	Max			
Α	10.00	10.40			
В	9.70	10.10			
С	6.80	7.20			
D	1.3	1.5			
E	1.4	1.8			
F	0.5	1.1			
G	0	0.15			
Н	4.9	5.1			
Т	0.20	0.30			

■ Suggested pad layout



YBS3				
Dim	Min			
P1	9.25			
P2	5.00			
Q1	1.00			
Q2	1.5			



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