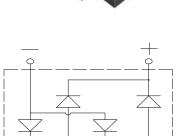


Bridge Rectifiers





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: YBS3

Molding compound meets UL 94 V-0 flammability

rating, -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	SYMBOI	UNIT	YBSM60005	YBSM6001	YBSM6002	YBSM6004	YBSM6006	YBSM6008	YBSM6010		
Device marking code			YBSM60005	YBSM6001	YBSM6002	YBSM6004	YBSM6006	YBSM6008	YBSM6010		
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	٧	50	100	200	400	600	800	1000		
Average rectified output current @60Hz sine wave, R-load, Tc=80°C	Ю	Α				6.0					
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25°C			150								
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C	IFSM	Α	300								
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	l²t	A ² s	93.4								
Storage temperature	T _{stg}	℃	-55 ~ +150								
Junction temperature	Tj	°	-55 ~ +150								

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	YBSM60005	YBSM6001	YBSM6002	YBSM6004	YBSM6006	YBSM6008	YBSM6010
Maximum instantaneous forward voltage drop per diode	VF	٧	IFM=3.0A				1.0			
Maximum DC reverse current	IR µA		T _j =25℃	5						
at rated DC blocking voltage per diode	"\	μΛ	Tj =125°C	100						
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	and Applied verse Voltage			50			



Thermal Characteristics $(T_a=25$ $^{\circ}$ C Unless otherwise specified)

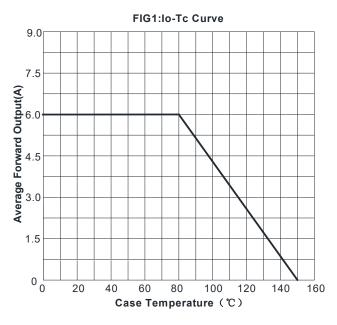
	PARAMETER	SYMBOL	UNIT	YBSM60005	YBSM6001	YBSM6002	YBSM6004	YBSM6006	YBSM6008	YBSM6010
	Between Junction and Ambient	$R_{\theta J\text{-}A}$					55			
Typical Thermal Resistance	Between Junction and Lead	R _{θJ-L}	°C/W	10						
. 100101411100	Between Junction and Case	R _{θJ-C}					6			

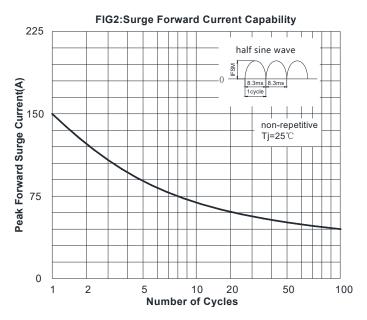
Note: Device mounted on P.C.B with 35mm*25mm*1.7mm.

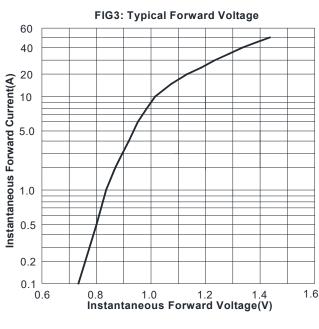
■Ordering Information (Example)

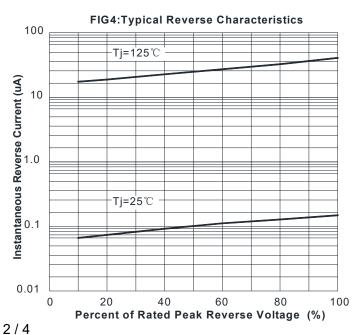
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE	
YBSM60005 THRU YBSM6010	F1	Approximate 0.36	1800	3600	25200	13" Reel	

■ Characteristics(Typical)



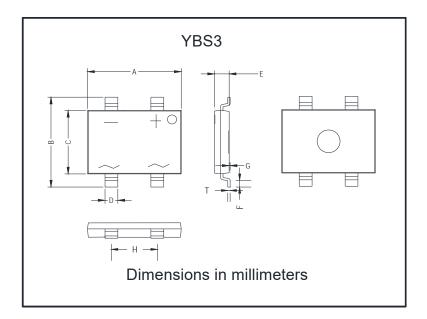






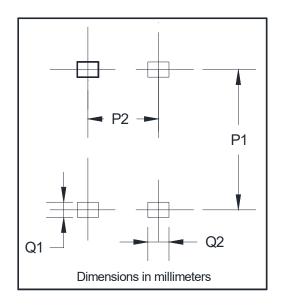


■ Outline Dimensions



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		
02	1.5		



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