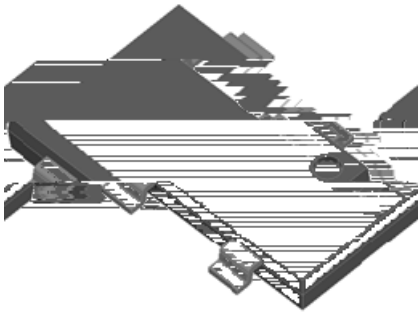


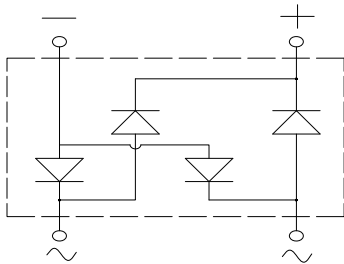
Bridge Rectifiers



- UL recognition, file sE313149
- 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 p 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 ($T_a=25$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	YBSM4010T
Device marking code			YBSM4010T
Maximum Repetitive Peak Reverse Voltage	VRRM	V	1300
Maximum RMS Voltage	VRMS	V	910
Maximum DC blocking Voltage	VDC	V	1300
Average rectified output current @60Hz sine wave, R-load, $T_c=100$	IO	A	4.0
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, $T_j=25$	IFSM	A	120
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, $T_j=25$			240
Current squared time @1ms ≤ $t \leq 8.3$ ms $T_j=25$ Rating of per diode	I^2t	A ² s	59.8
Storage temperature	T_{stg}		-55 ~ +150
Junction temperature	T_j		-55 ~ +150

■Electrical Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	YBSM4010T
Maximum instantaneous forward voltage drop per diode	V _F	V	I _{FM} =2.0A	1.0
Maximum DC reverse current at rated DC blocking voltage per diode	I _R	μA	$T_j=25$	5
			$T_j=125$	100
Typical junction capacitance	C _j	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	34



YBSM4010T

■ Thermal Characteristics $T_a=25$ Unless otherwise specified

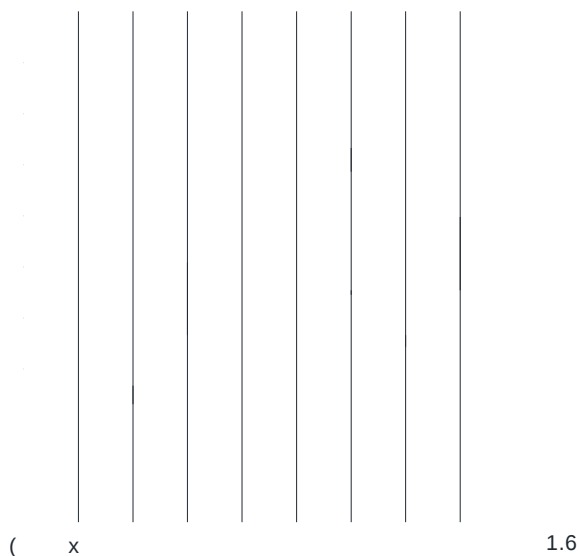
PARAMETER		SYMBOL	UNIT	YBSM4010T
Typical Thermal Resistance	Between Junction and Ambient	$R_{\theta J-A}$	/W	55
	Between Junction and Lead	$R_{\theta J-L}$		15
	Between Junction and Case	$R_{\theta J-C}$		7

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

■ Ordering Information (Example)

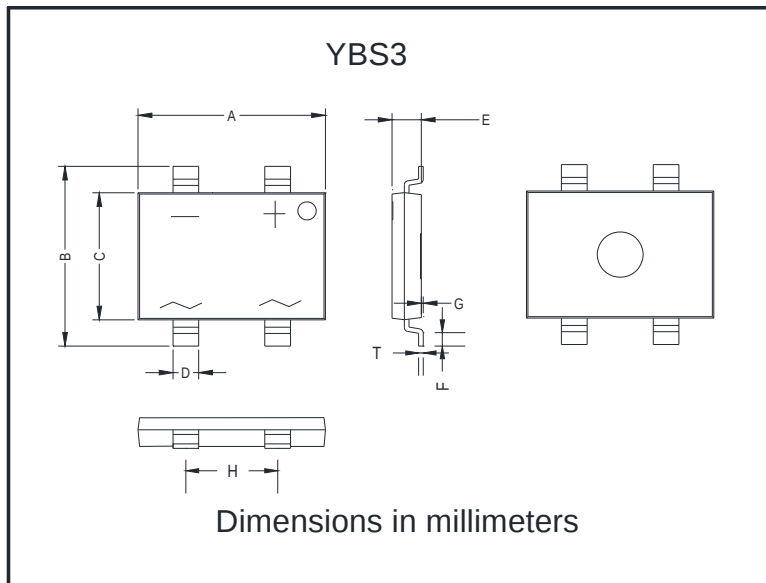
PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
YBSM4010T	F1	Approximate 0.35	1800	3600	25200	13" Reel

■ Characteristics (Typical)



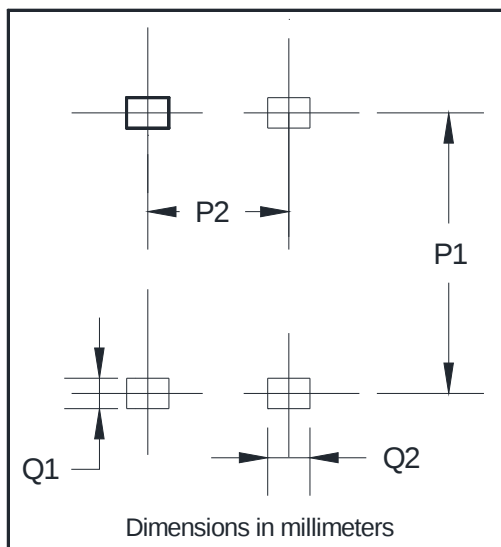


■ Outline Dimensions



YBS3		
Dim	Min	Max
A	10.00	10.40
B	9.70	10.10
C	6.80	7.20
D	1.3	1.5
E	1.4	1.8
F	0.5	1.1
G	0	0.15
H	4.9	5.1
T	0.20	0.30

■ Suggested pad layout



YBS3	
Dim	Min
P1	9.25
P2	5.00
Q1	1.00
Q2	1.5



Disclaimer

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