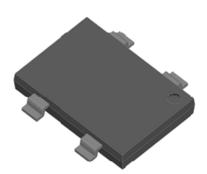
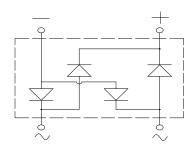




Low VF Bridge Rectifiers





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, 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)

PARAMETER	SYMBOL	UNIT	YBSML8006
Device marking code			YBSML8006
Maximum Repetitive Peak Reverse Voltage	VRRM	V	600
Maximum RMS Voltage	VRMS	V	420
Maximum DC blocking Voltage	VDC	V	600
Average rectified output current @60Hz sine wave, R-load, Tc=105°C	Io	Α	8.0
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25°C	IFSM		250
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C		A	500
Current squared time @1ms≤t≤8.3ms Tj=25°C,Rating of per diode	l²t	A ² s	259.4
Storage temperature	T _{stg}	°C	-55 ~ + 150
Junction temperature	Tj	°C	-55 ~ + 150

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

==:000::00::00::00::00::00::00::00::00:						
PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min	Тур	Max
Instantaneous forward voltage drop per diode	VF	٧	IFM=4.0A	0.7	0.87	0.92
DC reverse current at rated DC	IR	μA	T _j =25°C	-	0.068	5
blocking voltage per diode			Tj =125°C	-	30	100
Junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	40	78	160

YBSML8006

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

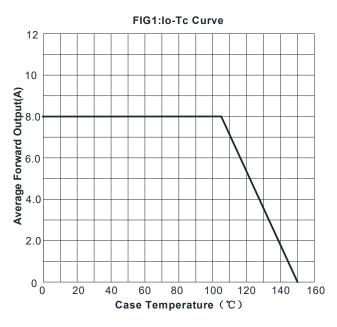
	PARAMETER	SYMBOL	UNIT	YBSML8006
Typical Thermal Resistance	Between Junction and Ambient	R _{0J-A}	°C/W	55
	Between Junction and Lead	R _{θJ-L}		10
	Between Junction and Case	R _{θJ-C}		5

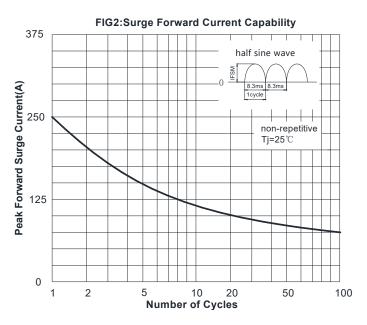
Note: Device mounted on P.C.B with 35mm*25mm*1.7mm.

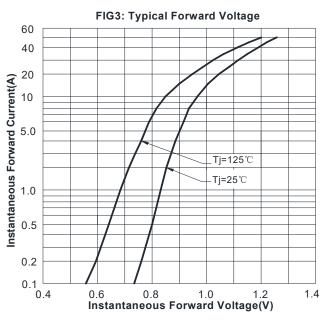
■Ordering Information (Example)

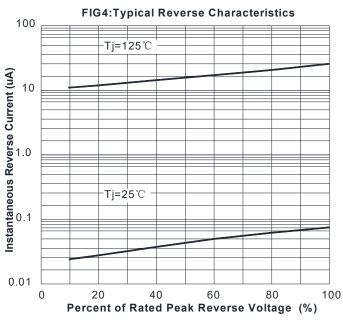
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
YBSML8006	F1	Approximate 0.38	1800	1	25200	13" Reel

■ Characteristics (Typical)





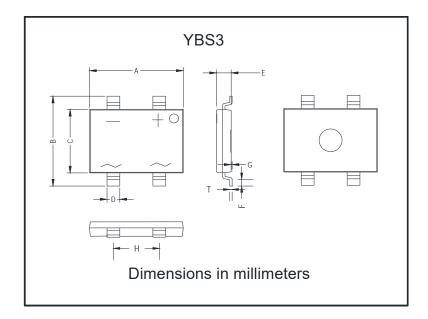






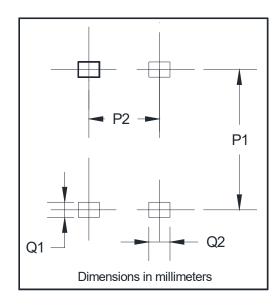


■ Outline Dimensions



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			



YBSML8006

Disclaimer

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