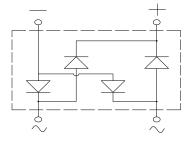


Low VF Bridge Rectifiers





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, -compliant, Halogen-free
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity: As marked on body

■Maximum Ratings (Ta=25℃ Unless otherwise specified)				
PARAMETER	SYMBOL	UNIT	YBSML8008	
Device marking code			YBSML8008	
Maximum Repetitive Peak Reverse Voltage	VRRM	V	800	
Maximum RMS Voltage	VRMS	V	560	
Maximum DC blocking Voltage	VDC	V	800	
Average rectified output current @60Hz sine wave, R-load, Tc=105°C	lo	А	8.0	
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25℃		A	250	
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25℃	IFSM		500	
Current squared time @1ms≤t≤8.3ms Tj=25℃,Rating of per diode	l²t	A²s	259.4	
Storage temperature	T _{stg}	°C	-55 ~ +150	
Junction temperature	Тј	°C	-55 ~ +150	

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min	Тур	Мах
Instantaneous forward voltage drop per diode	VF	V	IFM=4.0A	0.7	0.875	0.92
DC reverse current at rated DC blocking voltage per diode	IR	μA	Т _ј =25°С	-	0.18	5
			Tj =125℃	-	42	100
Junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	35	74	150



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

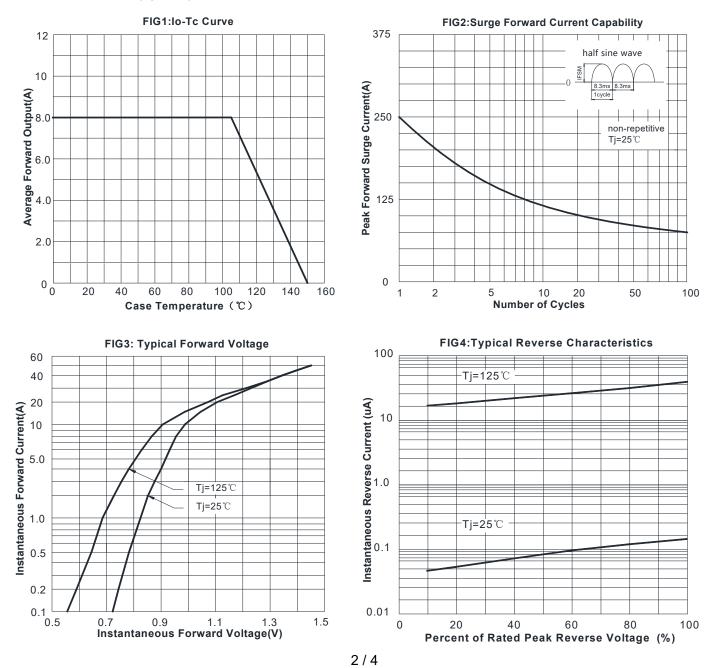
	PARAMETER	SYMBOL	UNIT	YBSML8008
	Between Junction and Ambient	$R_{\theta J\text{-}A}$		55
Typical Thermal Resistance	Between Junction and Lead	$R_{\theta J\text{-L}}$	°C/W	10
	Between Junction and Case	$R_{ extsf{ hetaJ-C}}$		5

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

Ordering Information (Example)

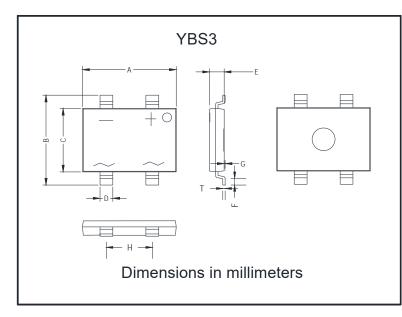
PREFERED P/N	PACKI	-	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
YBSML8008	F1		Approximate 0.38	1800	/	25200	13" Reel

Characteristics (Typical)



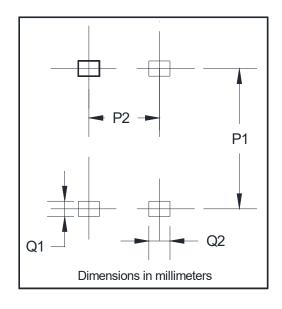


Outline Dimensions



YBS3					
Dim	Min	Max			
А	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			

Shanghai Sunco Electronics Co., Ltd



Disclaimer

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