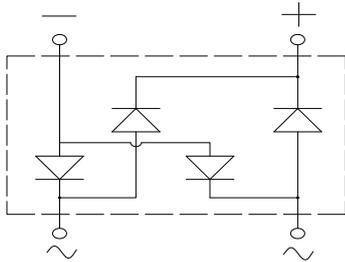
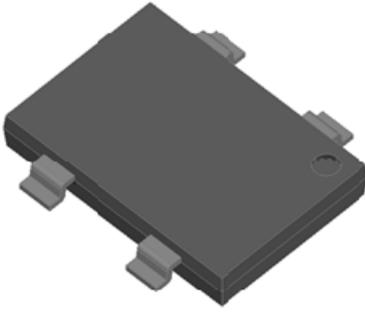


Low VF Bridge Rectifiers



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	YBSML6006	YBSML6008
Device marking code			YBSML6006	YBSML6008
Maximum Repetitive Peak Reverse Voltage	VRRM	V	600	800
Maximum RMS Voltage	VRMS	V	420	560
Maximum DC blocking Voltage	VDC	V	600	800
Average rectified output current @60Hz sine wave, R-load, Tc=110°C	Io	A	6.0	
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, Tj=25°C	IFSM	A	200	
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C			400	
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	I²t	A²s	166	
Storage temperature	Tstg	°C	-55 ~ +150	
Junction temperature	Tj	°C	-55 ~ +150	

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min	Typ	Max
Instantaneous forward voltage drop per diode	VF	V	IFM=3.0A	0.7	0.875	0.92
DC reverse current at rated DC blocking voltage per diode	IR	µA	Tj=25°C	-	0.18	5
			Tj=125°C	-	50	100
Junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	28	55	110



YBSML6006 THRU YBSML6008

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

PARAMETER		SYMBOL	UNIT	YBSML6006	YBSML6008
Typical Thermal Resistance	Between Junction and Ambient	R _{θJ-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)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
YBSML6006- YBSML6008	F1	Approximate 0.38	1800	/	25200	13" Reel

■ Characteristics (Typical)

FIG1: I_o-T_c Curve

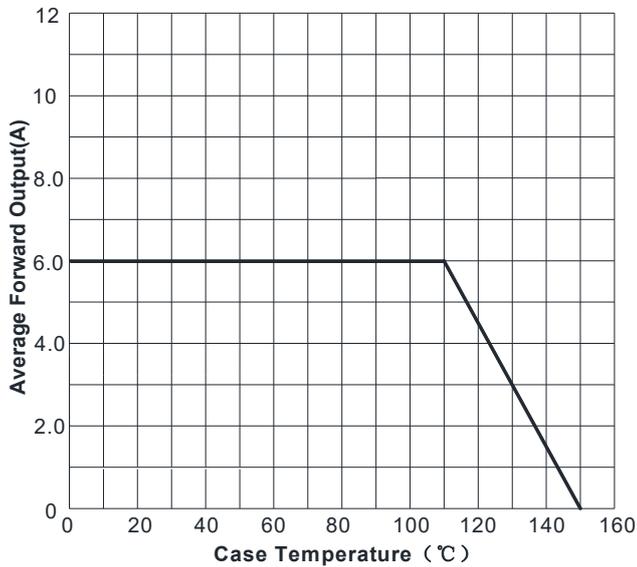


FIG2: Surge Forward Current Capability

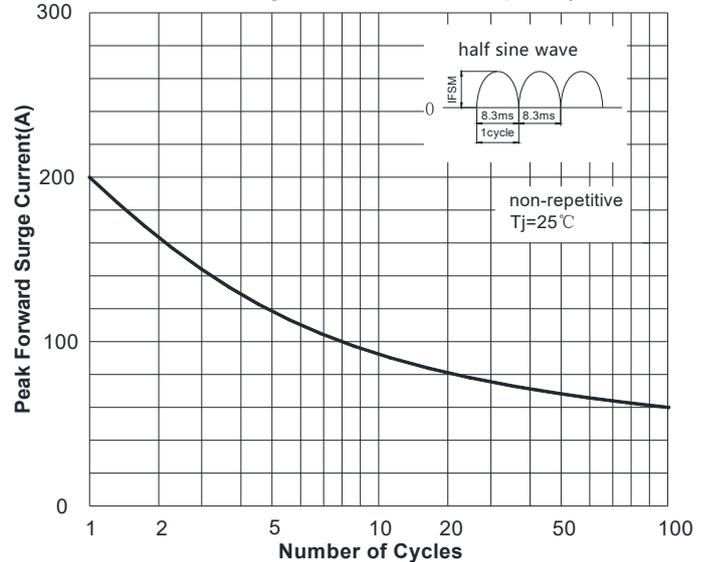


FIG3: Typical Forward Voltage

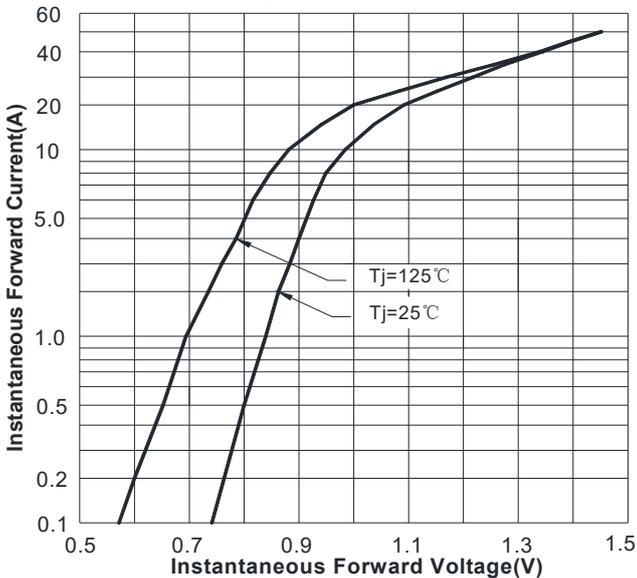
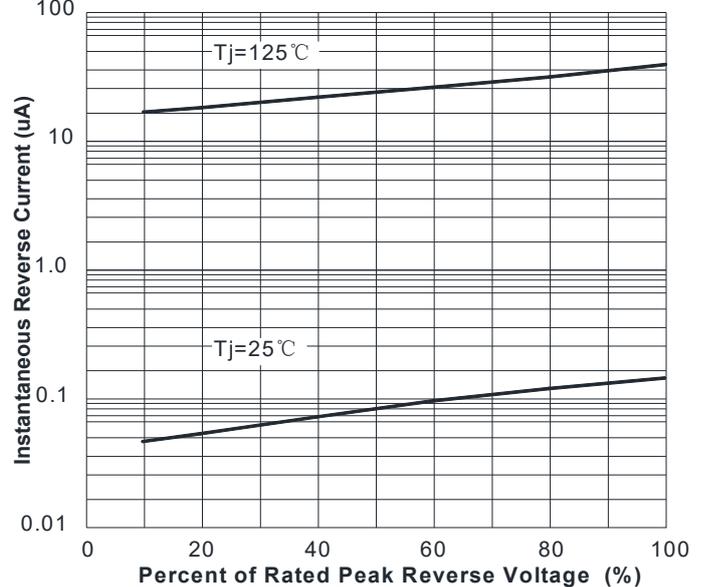


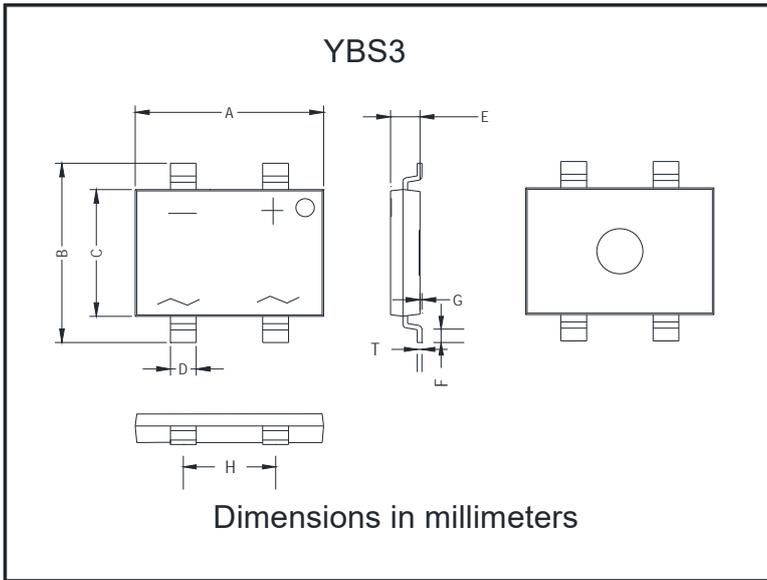
FIG4: Typical Reverse Characteristics





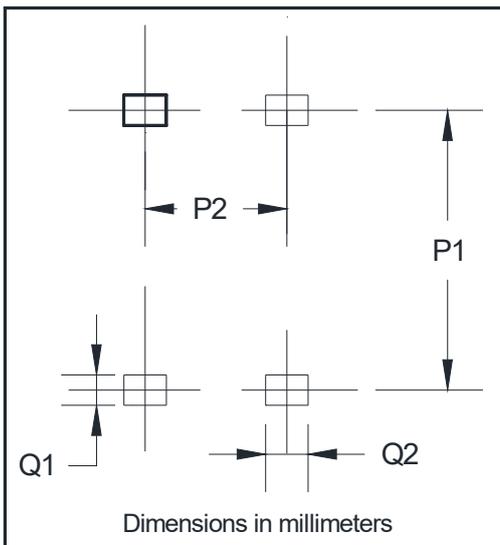
YBSML6006 THRU YBSML6008

■ 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



YBSML6006 THRU YBSML6008

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