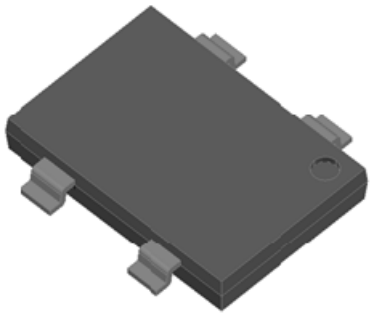
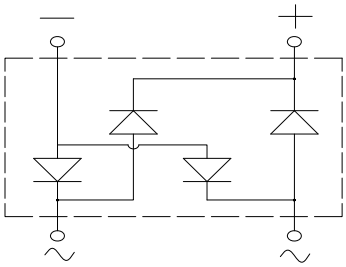
Low VF Bridge Rectifiers





Features

- 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℃ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	YBSML4008
Device marking code			YBSML4008
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	V	800
Maximum RMS Voltage	V_{RMS}	V	560
Maximum DC blocking Voltage	V_{DC}	V	800
Average rectified output current @60Hz sine wave, R-load, Tc=100℃	I_O	A	4.0
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25℃	I_{FSM}	A	150
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25℃			300
Current squared time @1ms≤t≤8.3ms Tj=25℃，Rating of per diode	I^2t	A^2s	93.4
Storage temperature	T_{stg}	℃	-55 ~ +150
Junction temperature	T_j	℃	-55 ~ +150

■Electrical Characteristics（Ta=25℃ Unless otherwise specified）

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min	Typ	Max
Instantaneous forward voltage drop per diode	V_F	V	I_{FM}=2.0A	0.7	0.87	0.92
DC reverse current at rated DC blocking voltage per diode	I_R	μA	T_j=25℃	-	0.1	5
			T_j=125℃	-	35	100
Junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	20	38	60

■Thermal Characteristics （T_a=25℃ Unless otherwise specified）

PARAMETER		SYMBOL	UNIT	YBSML4008
Typical Thermal Resistance	Between Junction and Ambient	$R_{\theta J-A}$	℃/W	55
	Between Junction and Lead	$R_{\theta J-L}$		12
	Between Junction and Case	$R_{\theta J-C}$		7

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
YBSML4008	F1	Approximate 0.35	1800	/	25200	13'' Reel

■ Characteristics (Typical)

FIG1:Io-Tc Curve

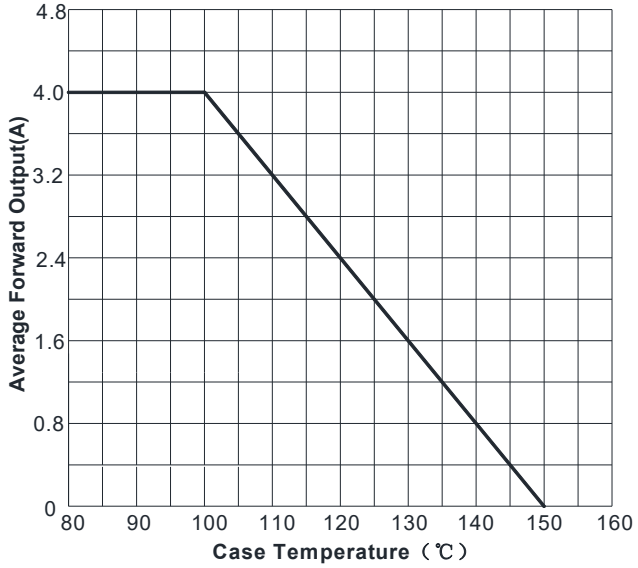


FIG2:Surge Forward Current Capability

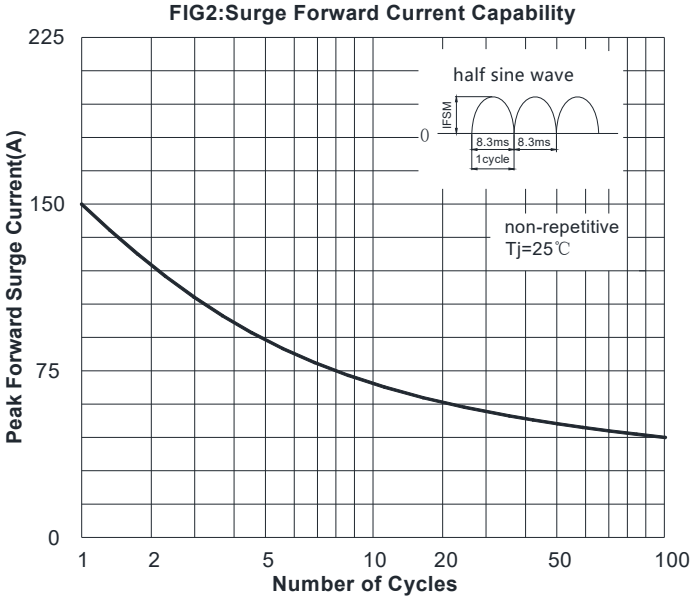


FIG3: Typical Forward Voltage

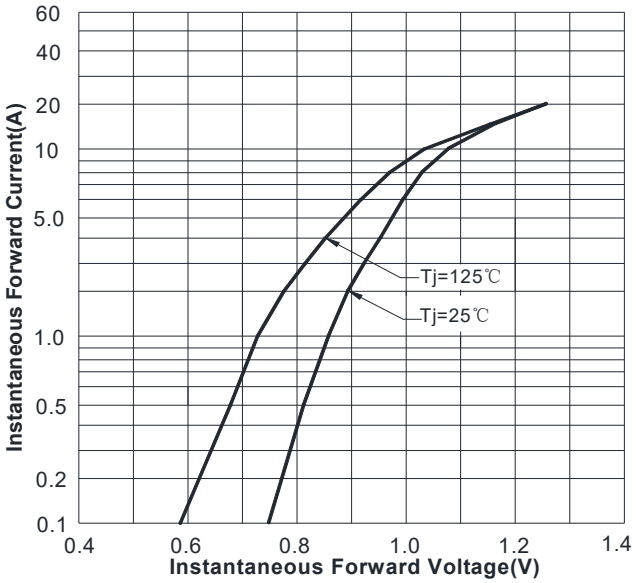
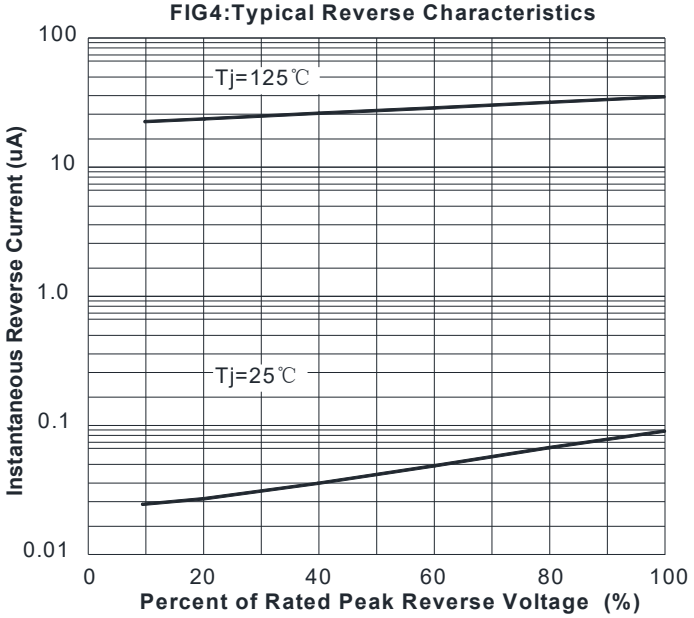
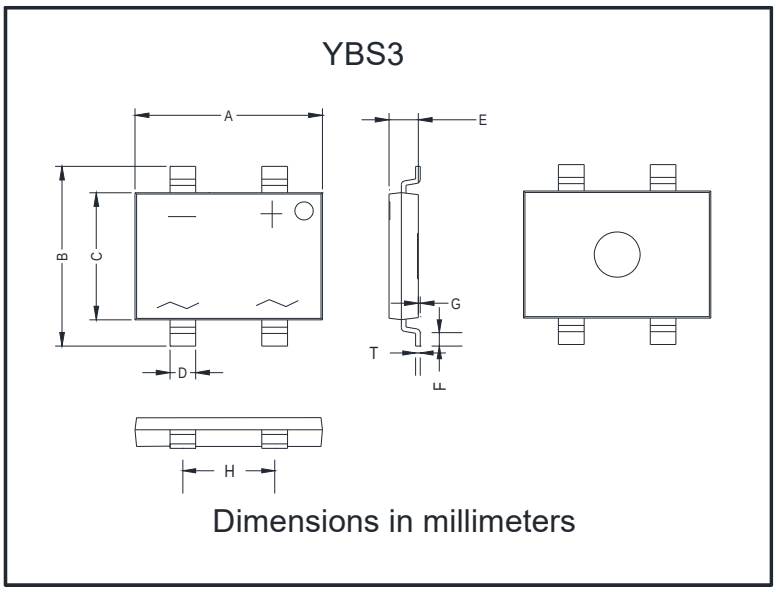


FIG4:Typical Reverse Characteristics

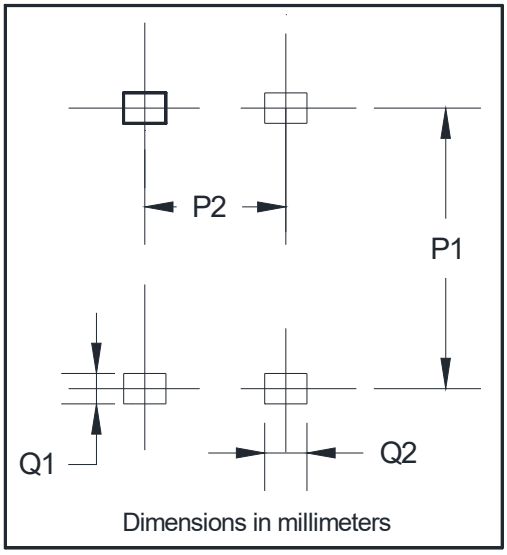


■ Outline Dimensions



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

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