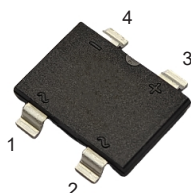


Ultrasoft Recovery Bridge

LBS Package



PINNING

PIN	DESCRIPTION
1	Input Pin ~
2	Input Pin ~
3	Output Anode +
4	Output Cathode -

Features

- Glass Passivated Chip Junction
- Reverse Voltage - 1000 V
- Forward Current - 8.0 A
- High Surge Current Capability
- Designed For Surface Mount Application

Benefits

- Case: LBS
- Terminals: Matte tin plated leads, solderable per J-STD-002 and JESD22-B102;

Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	WRLBS80M	Units
Maximum Repetitive Peak Reverse Voltage	VRRM	1000	V
Maximum RMS voltage	VRMS	700	V
Maximum DC Blocking Voltage	VDC	1000	V
Average Rectified Output Current	I _o	8.0	A
Reverse Recovery Time. IF=0.5A, IR=1A, IRR=0.25A	T _{rr}	10	us
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	200	A
I ² t rating for fusing (1ms< t < 8.3ms)	I ² t	166	A ² S
Maximum Forward Voltage at 4.0 A	V _F	1.0	V
Maximum DC Reverse Current @TA=25 °C at Rated DC Blocking Voltage @TA=125 °C	I _R	5 100	μA
Typical Junction Capacitance (Note1)	C _j	43	pF
Operating and Storage Temperature Range	T _j , T _{stg}	-55 ~ +150	°C
Typical thermal resistance	R _{thJC} R _{thJA} R _{thJL}	15 70 22	°C/W

Note: 1. Measured at 1MHz and applied reverse voltage of 5 VDC.

RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)

FIG.1 Derating Curve Output Rectified Current

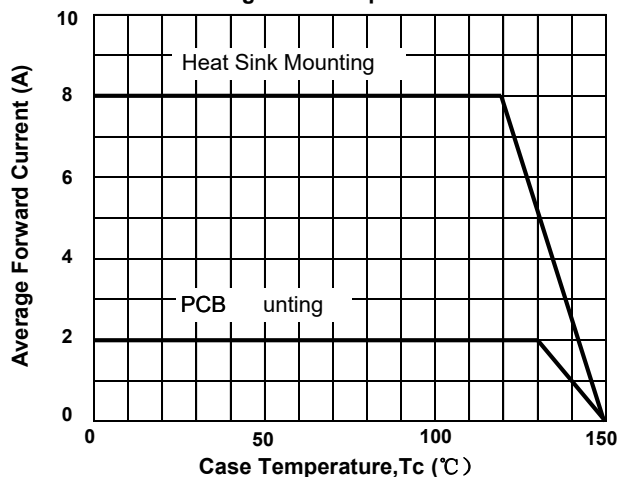


FIG.2 Typical Forward Characteristics per Diode

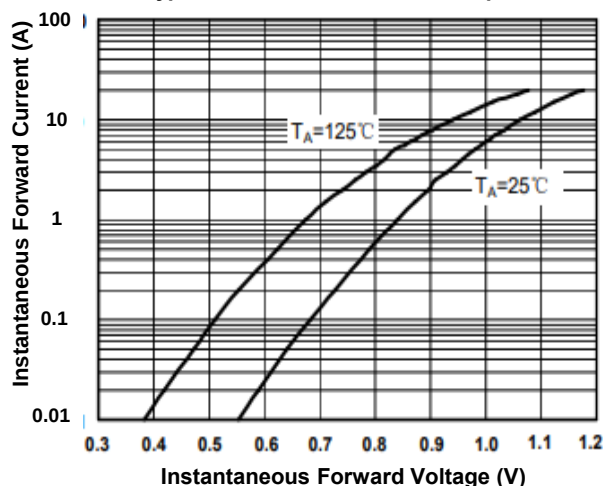


FIG.3 Maximum Non-Repetitive Peak Forward Surge Current per Diode

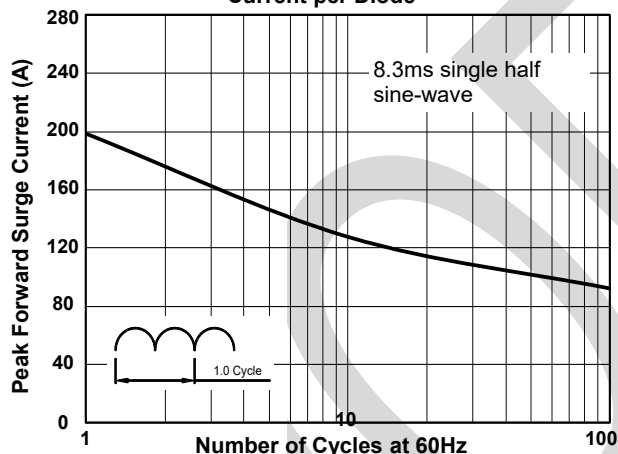


FIG.4 Typical Reverse Characteristics per Diode

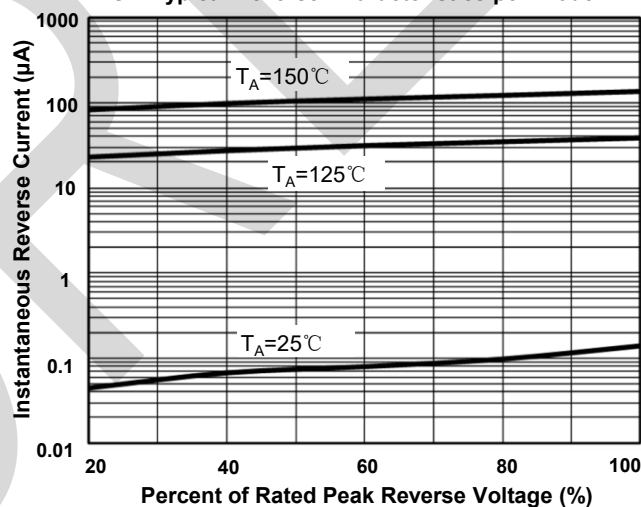
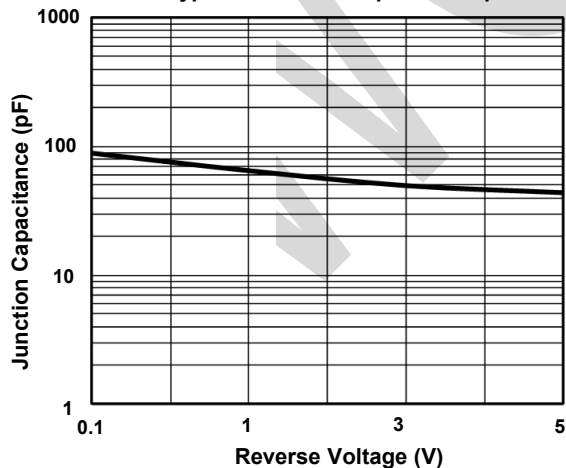
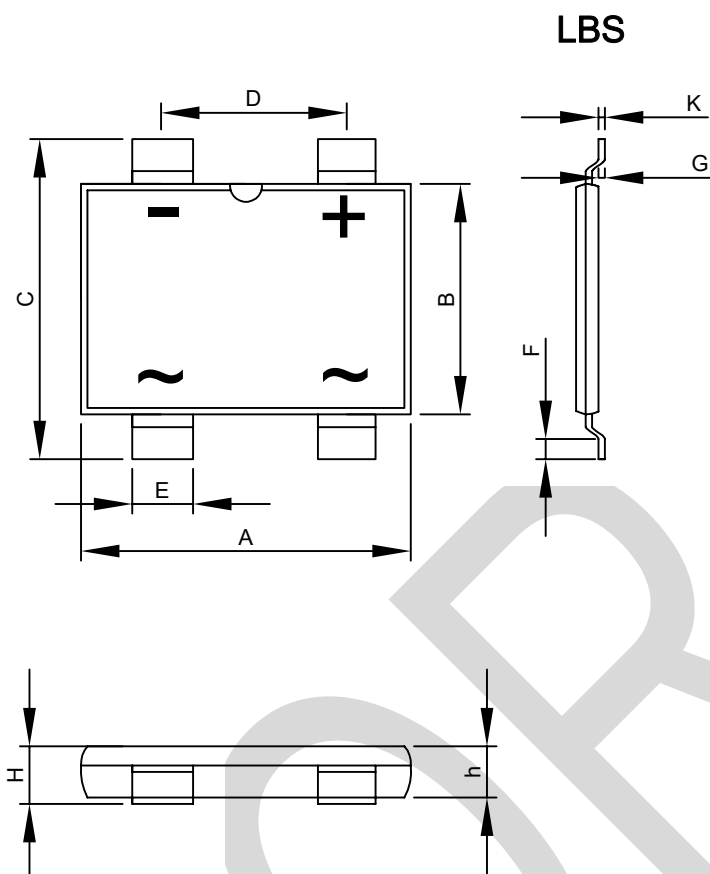


FIG.5 Typical Junction Capacitance per Diode

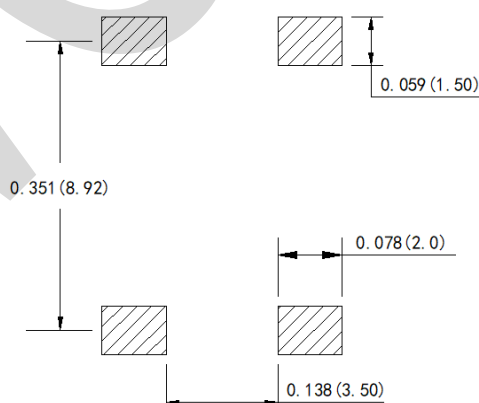


PACKAGE OUTLINE DIMENSIONS



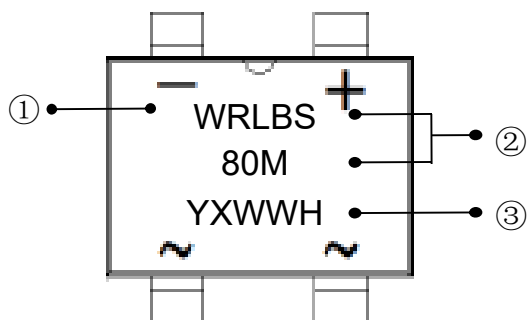
LBS		
Dim	Min	Max
A	10.05	10.35
B	7.00	7.40
C	9.75	10.05
D	5.25	5.60
E	1.70	1.90
F	0.45	0.95
G	0.00	0.20
H	1.45	1.80
h	1.45	1.65
K	0.15	0.35

Suggested PCB printfoot layout



Unit: inches (mm)

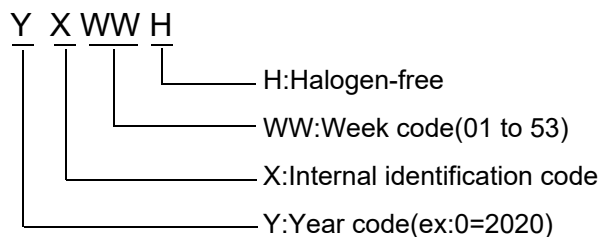
Marking Information



①WR : Soft-Bridge

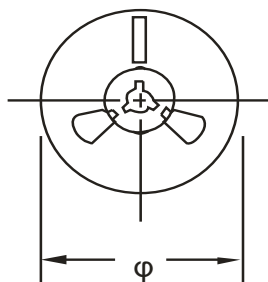
②Product model : LBS80M

③PDC information:

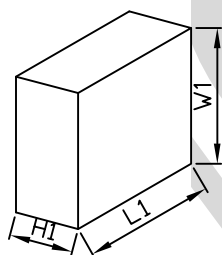


Packaging Information

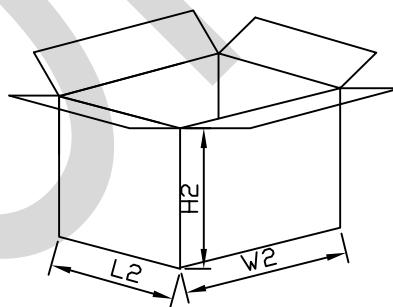
1.Reel Dimensions



2. Inside Box



3. Outside Box



Packaging Information

NO	UNIT	Reel Dimensions			Inside Box			Outside Box		
Size	mm	φ	A	B	L1	W1	H1	L2	W2	H2
		331	110	28	340	340	43	360	360	270
QTY	PCS	Smallest package,2,500PCS/reel			2,500PCS,1 reel in total			15,000PCS/carton,6boxes in total		
Note	Tolerance ≤20mm,±3mm; 21-100mm,±5mm; 101-500mm,±10mm									