Shenzhen World Industrial Co.,Ltd. Soft-Bridge®

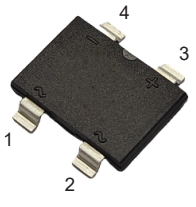
WRLBS80M

01-Jul-2026

Ultrasoft Recovery Bridge

VF:0.74V@1A/125°C

LBS Package



Features

- Reverse Voltage - 1000 V
- Iorward Current - 8.0 A
- Compliant with RoHS Provisions
- High forward surge current capability

PINNING

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

Applications

- Switching Power Supply
- Home Appliances, Office Devices
- Industrial Auto-equipments

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	V_{RRM}	1000	V
Maximum RMS voltage	V_{RMS}	700	V
Maximum DC Blocking Voltage	V_{DC}	1000	V
Average Rectified Output Current	I_o	8.0	A
Reverse Recovery Time. IF=0.5A,IR=1A,IRR=0.25A	Trr	10	us
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	200	A
I^2t rating for fusing (1ms< t < 8.3ms)	I^2t	166	A^2S
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	10 500	μA
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150	°C
Typical thermal resistance (Note 1)	$R_{\theta JC}$	15	°C/W
	$R_{\theta JA}$	70	

Note: 1. Thermal Resistance : Heat-sink case mounted or if PCB mounted.

Ratings And Characteristics Curves (TA = 25 ℃ unless otherwise noted)

Fig.1 Current Derating, Case

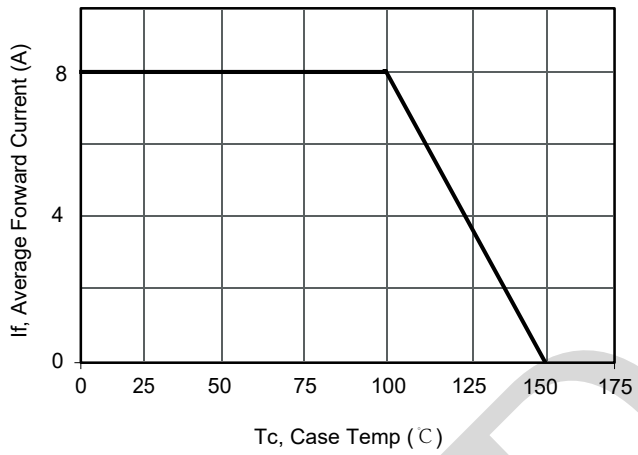


Fig.2 Maximum Non-Repetitive Peak Forward Surage Current

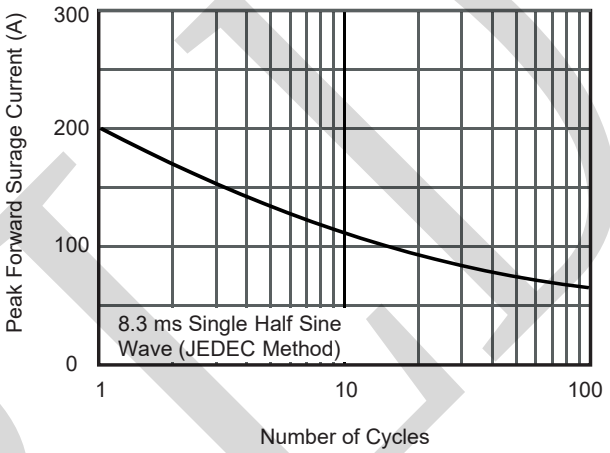


Fig.3 Typical Forward Voltage

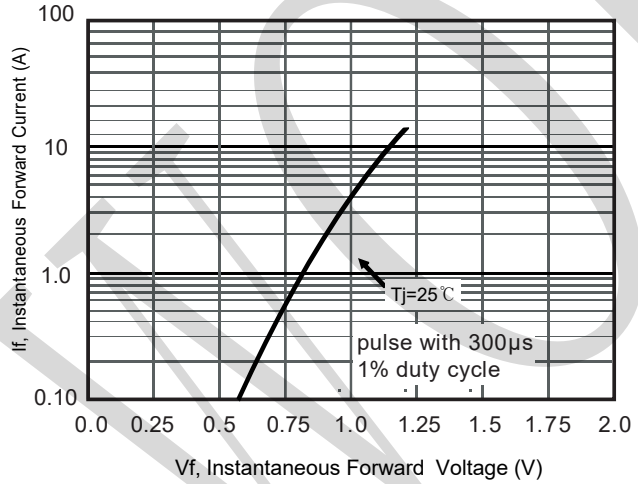
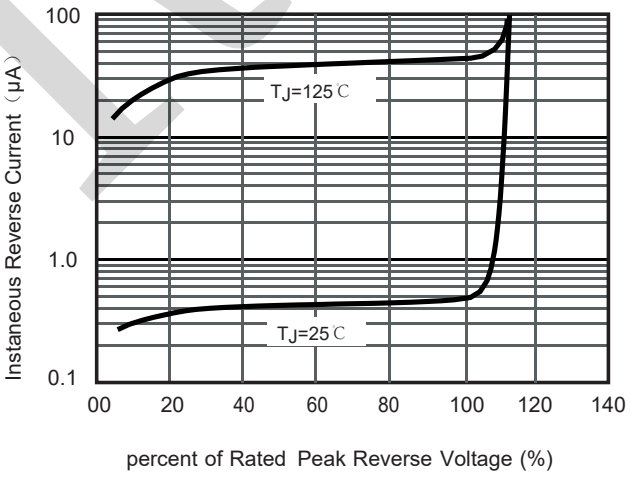
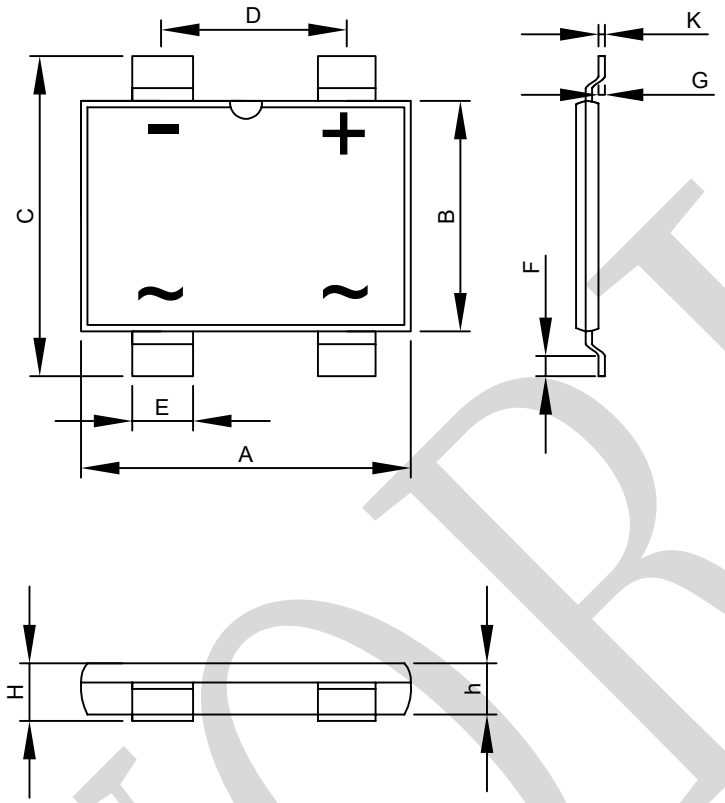


Fig.4 Typical Reverse Characteristics



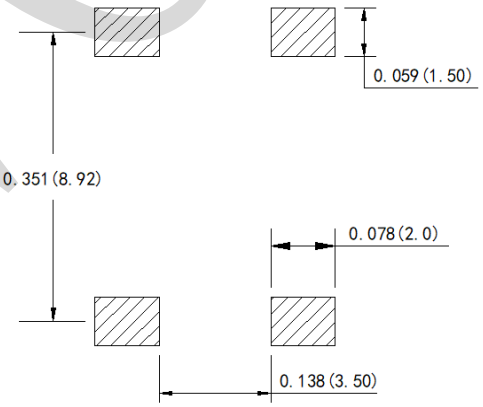
PACKAGE OUTLINE DIMENSIONS

LBS



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	1.30	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

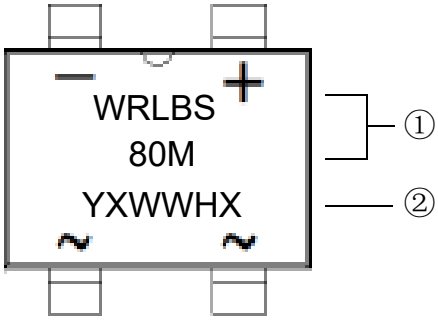
Suggested PCB printfoot layout



Unit: inches (mm)

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Marking Information



①Product model : WRLBS80M

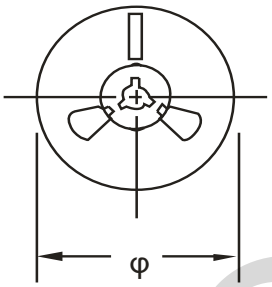
②PDC information：

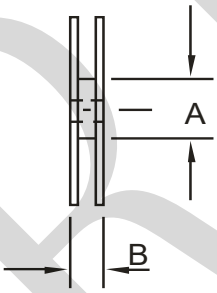
Y X WW H X

- M:Internal identification code 2
- H:Halogen-free
- WW:Week code(01 to 53)
- X:Internal identification code 1
- Y:Year code(ex:0=2020)

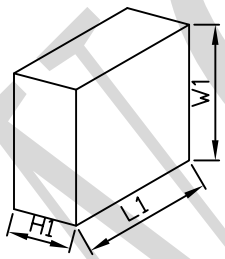
Packaging Information

1.Reel Dimensions

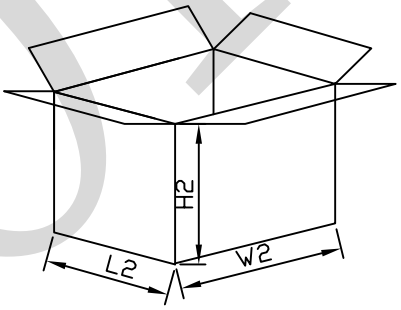




2.Inside Box



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	60	360	360	270
QTY	PCS	Smallest package,2,500PCS/reel			5,000PCS,2 reels			20K PCS,4 boxes in total		
Note	Tolerance ≤20mm,±3mm; 21-100mm,±5mm; 101-500mm,±10mm									

Revision Histor			
Date	Revision	Description & changes	Author
2015.08.23	1.0	Initial version	Sun
2017.06.23	1.1	Add printed characters	Sun
2017.11.23	1.2	Size correction	Sun
2018.11.23	1.3	Parameter update	Sun
2019.11.23	1.4	Parameter update	Sun
2024.11.23	1.5	Parameter update	Ren
2026.07.01	1.6	Version updating	Tang

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