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

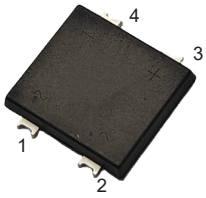
WRLSB60M

01-Jul-2026

Ultrasoft Recovery Bridge

VF:0.71V@1A/125°C

LSB Package



Features

- Reverse Voltage - 1000 V
- Iorward Current - 6.0 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	WRLSB60M	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	6.0	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}	180	A
I^2t rating for fusing (1ms< t < 8.3ms)	I^2t	162	A^2S
Maximum Forward Voltage at 3.0 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)	$R_{\theta JC}$	16	°C/W
	$R_{\theta JA}$	60	
Note: 1. Thermal Resistance : Heat-sink case mounted or if PCB mounted.			

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

Fig.1 Current Derating, Case

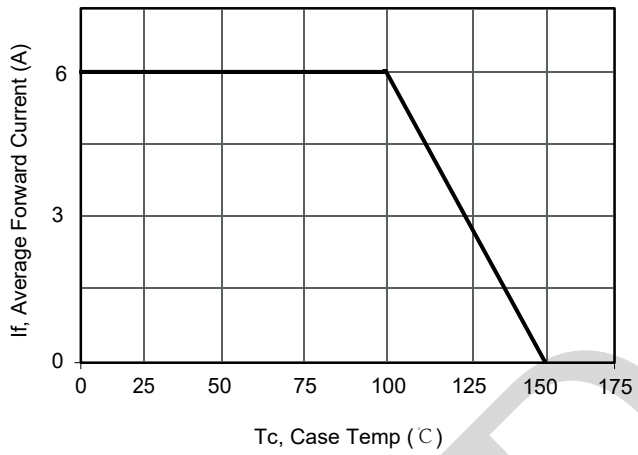


Fig.2 Maximum Non-Repetitive Peak Forward Surage Current

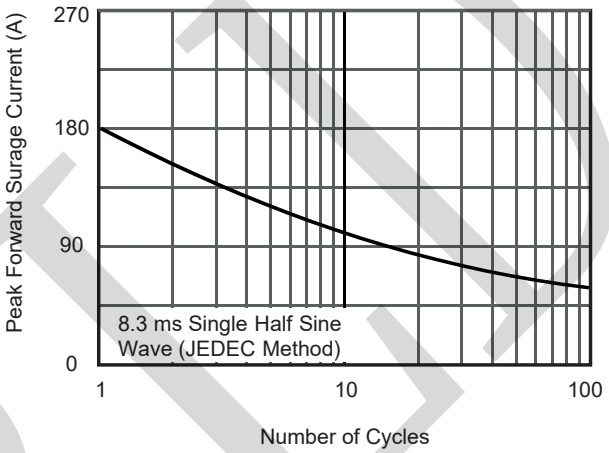


Fig.3 Typical Forward Voltage

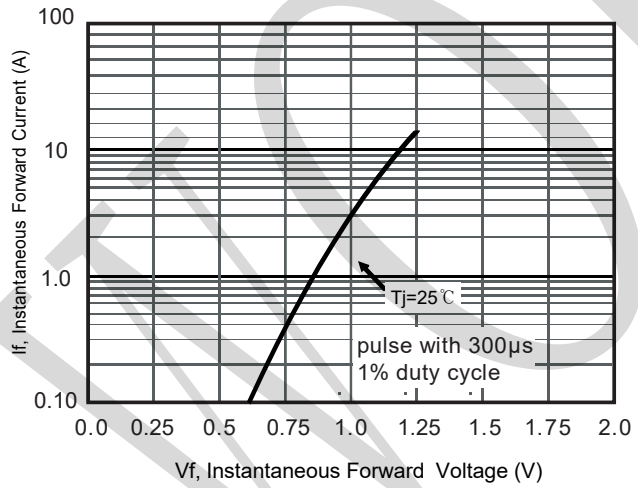
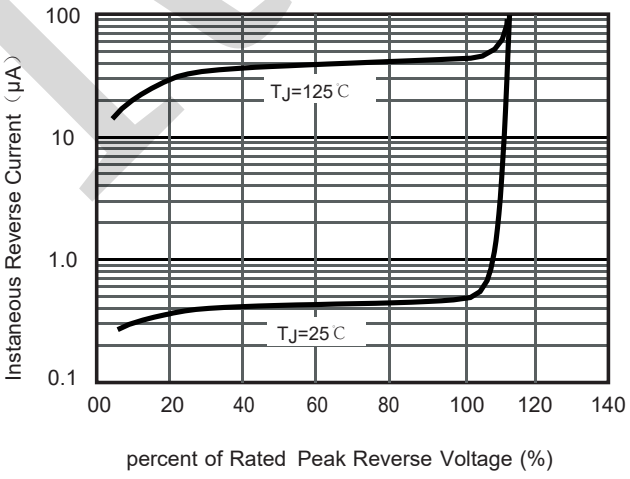
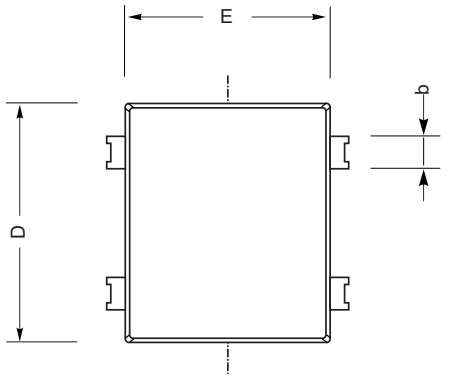


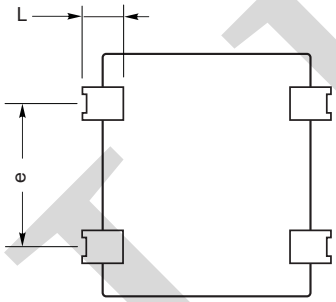
Fig.4 Typical Reverse Characteristics

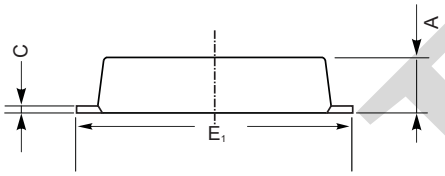


PACKAGE OUTLINE DIMENSIONS

Note:unit In(mm)



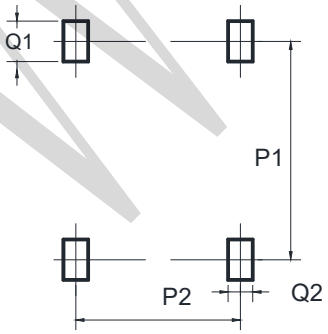




LSB mechanical data

UNIT		A	C	D	E	E1	L	e	b
mm	max	1.75	0.55	9.8	8.8	10.2	1.25	5.3	1.55
	min	1.35	0.25	9.4	8.4	9.8	0.85	4.9	1.25
mil	max	68	21.6	385	346	401	49	209	61
	min	53	9.8	370	330	385	33	193	49

LSB Suggested Pad Layout

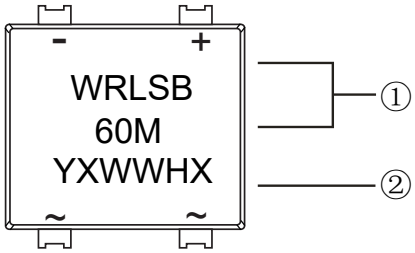


Dimensions is millimeters

UNIT		P1	P2	Q1	Q2
mm	min	10.0	5.10	1.5	1.8
mil	min	393.7	200.8	59.1	70.9

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Marking Information



①Product model : WRLSB60M

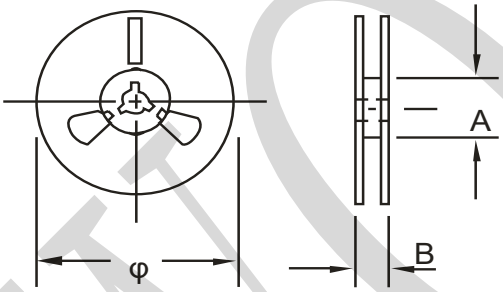
②PDC information：

Y X WW H X

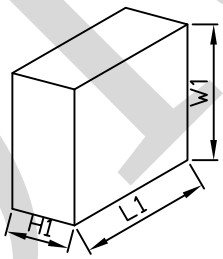
- M:Internal identification code 2
- H:Halogen-free
- WW:Week code(01 to 53)
- X:Internal identification code 1
- Y:Year code(ex:0=2020)

Packaging Information

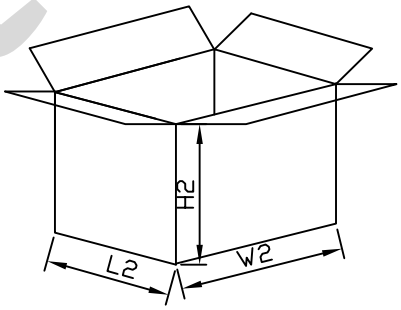
1.Reel Dimensions



2.Inside Box



3.Outside Box



Packaging Information

NO	UNIT	Tube Dimensions			Inside Box			Outside Box		
Size	mm	φ	A	B	L1	W1	H1	L2	W2	H2
		330	100	20	340	340	50	360	360	270
QTY	PCS	Smallest package, 3000PCS/reel			6,000PCS,2 reels			30K PCS,5 boxes in total		
Note	Tolerance ≤20mm,±3mm; 21-100mm,±5mm; 101-500mm,±10mm									

Revision Histor			
Date	Revision	Description & changes	Author
2017.11.23	1.0	Initial version	Sun
2019.11.23	1.1	Add printed characters	Sun
2026.07.01	1.2	Version updating	Tang

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