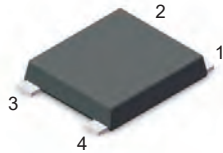


Ultrasoft Recovery Bridge Soft-Bridge[®]



LSB 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 - 8A
- High Surge Current Capability
- Designed For Surface Mount Application

Benefits

- Case: LSB
- Terminals: Solderable Per MIL-STD-750
- Reduced EMI, Reduced power loss and switching transist

Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

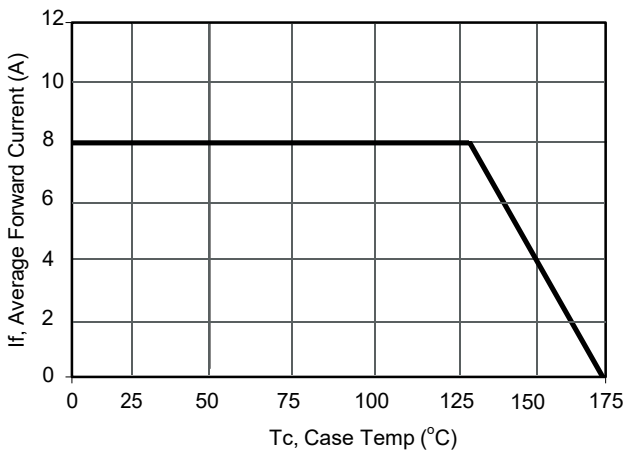
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

| Parameter | Symbols | WRLSB80M | 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 | 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) | IFSM | 200 | A |
| I ² t rating for fusing (1ms< t < 10ms) | I ² t | 200 | A ² S |
| Maximum Forward Voltage at 4.0 A | V _F | 1.1 | 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 | 50 | pF |
| Operating and Storage Temperature Range | T _j , T _{stg} | -55 ~ +175 | °C |

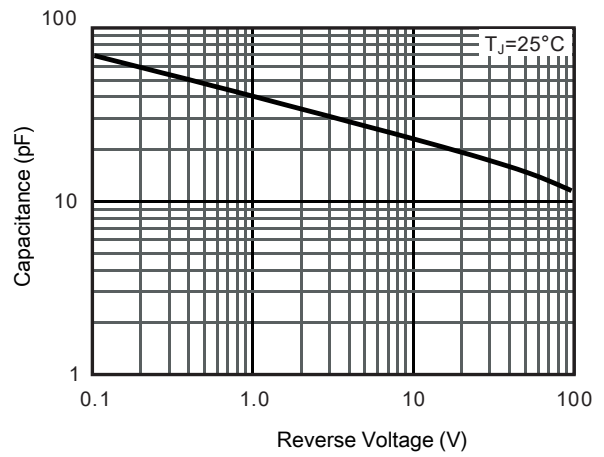
Note: 1. Measured at 1MHz and applied reverse voltage of 4 VDC.

2.Mounted on glass epoxy PC board with 4×1.5"×1.5" (3.81×3.81 cm) copper pad

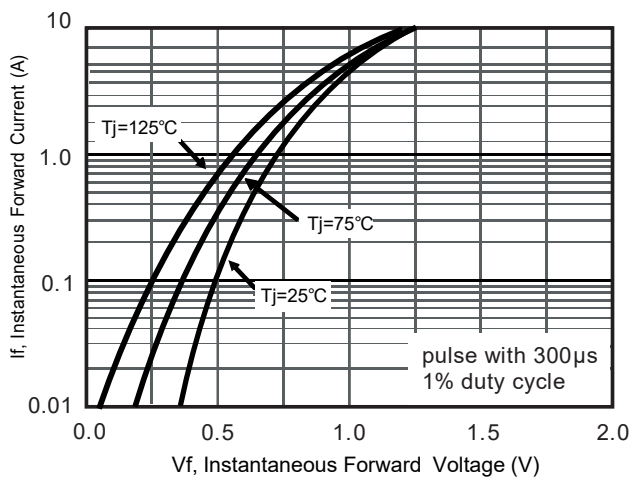
RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)



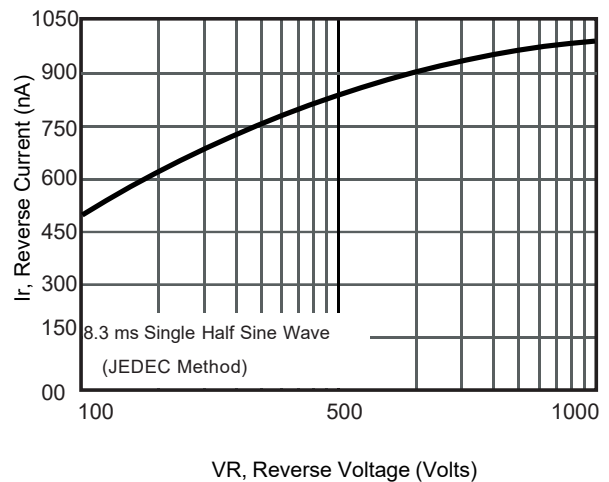
Current Derating, Case



Typical Junction Capacitance



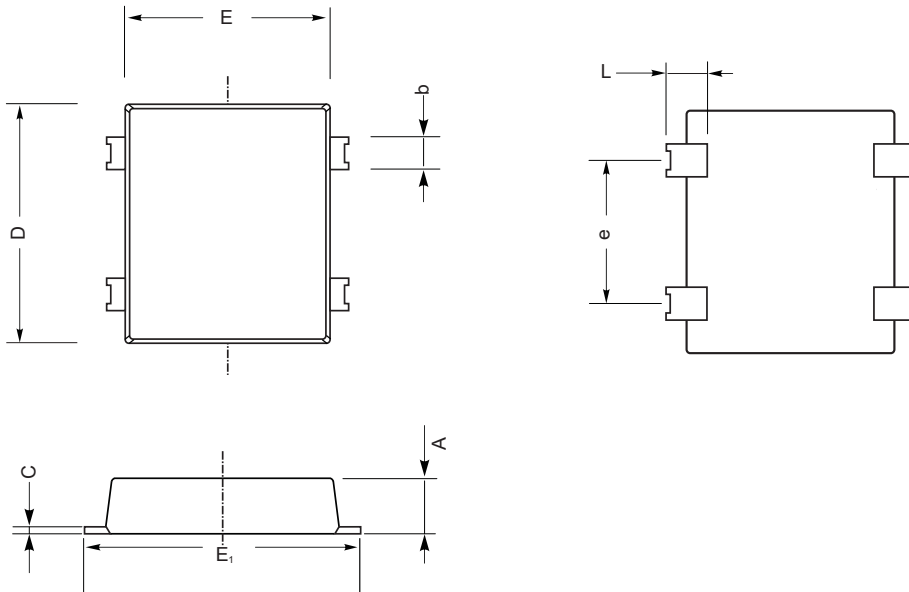
Typical Forward Voltage



Typical Reverse Current

PACKAGE OUTLINE DIMENSIONS

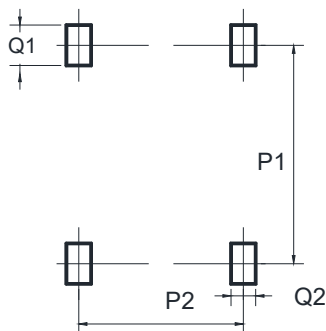
LSB



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 |

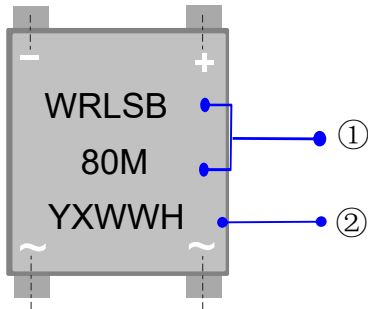
LSB Suggested Pad Layout



| 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 |

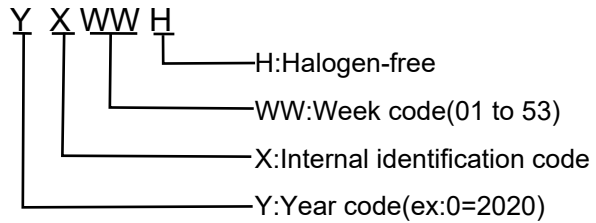
Dimensions is millimeters

Marking Information



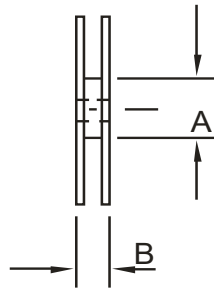
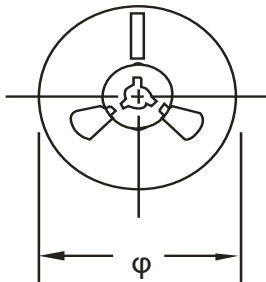
① Product model : WRLSB80M

② PDC information :

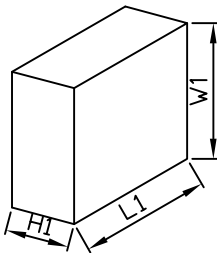


Packaging Information

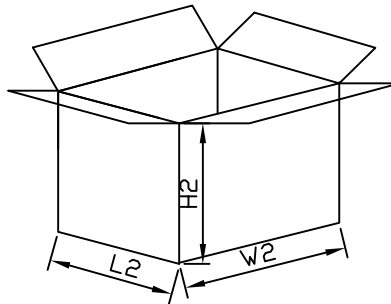
1.Reel Dimensions



2. Inside Box



3. Outside Box



Packaging Information

| NO | UNIT | Reel Dimensions | | | Inside Box | | | Outside Box | | |
|------|------------------------------------------------------|-------------------------------|-----|----|--------------------------|-----|----|----------------------------------|-----|-----|
| | | φ | A | B | L1 | W1 | H1 | L2 | W2 | H2 |
| Size | mm | 330 | 100 | 22 | 335 | 335 | 52 | 360 | 360 | 270 |
| QTY | PCS | Smallest package,3000PCS/reel | | | 6,000PCS,2 reel in total | | | 30,000PCS/carton,5boxes in total | | |
| Note | Tolerance ≤20mm,±3mm; 21-100mm,±5mm; 101-500mm,±10mm | | | | | | | | | |