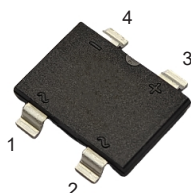


Low VF Bridge Rectifier

LBS Package



PINNING

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

Features

- Glass Passivated Chip Junction
- Reverse Voltage - 600 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	LBS80JL		Units
Maximum Repetitive Peak Reverse Voltage		VRRM	600		V
Maximum RMS voltage		VRMS	420		V
Maximum DC Blocking Voltage		VDC	600		V
Average Rectified Output Current		Io	8.0		A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)		IFSM	200		A
Instantaneous forward voltage per diode@25 °C		VF	TYP.	MAX.	V
	IF=2A		0.85	--	
	IF=4A		0.90	0.95	
Maximum DC Reverse Current @TA=25 °C at Rated DC Blocking Voltage @TA=125 °C		IR	5 100		μA
Typical Junction Capacitance (Note1)		Cj	50		pF
Operating and Storage Temperature Range		Tj, Tstg	-55 ~ +150		°C
Typical thermal resistance (Note 2)		RthJC RthJA RthJL	11 70 14		°C/W

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

FIG.1 Derating Curve Output Rectified Current

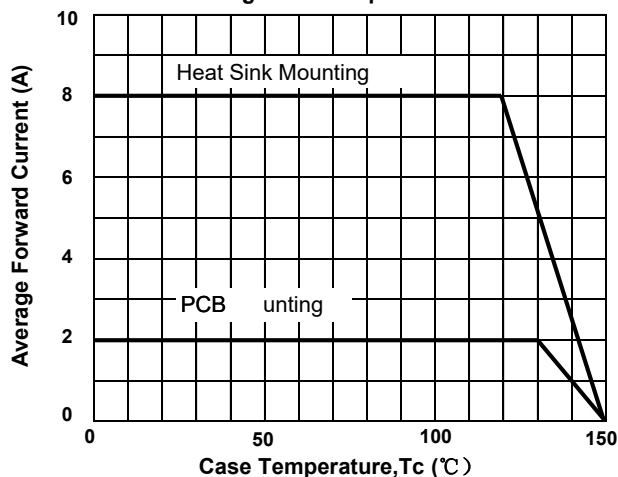


FIG.2 Typical Forward Characteristics per Diode

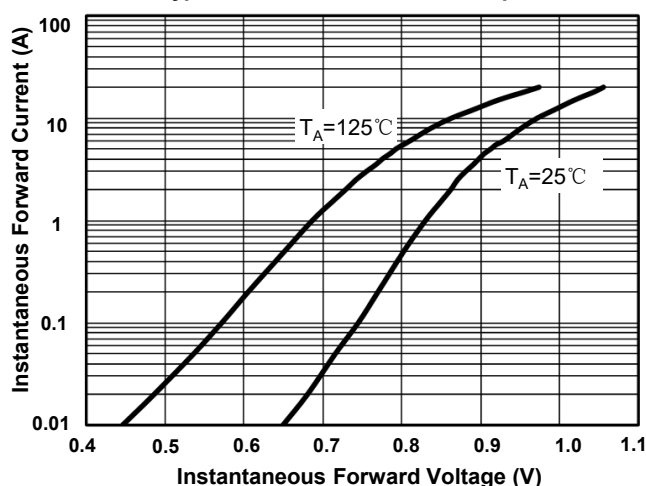


FIG.3 Maximum Non-Repetitive Peak Forward Surge Current per Diode

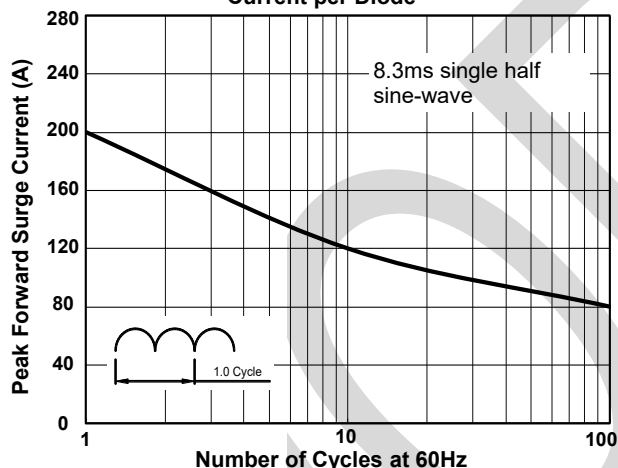


FIG.4 Typical Reverse Characteristics per Diode

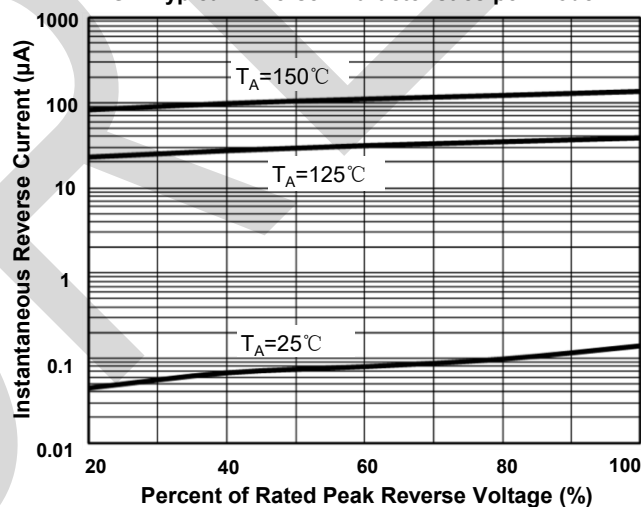
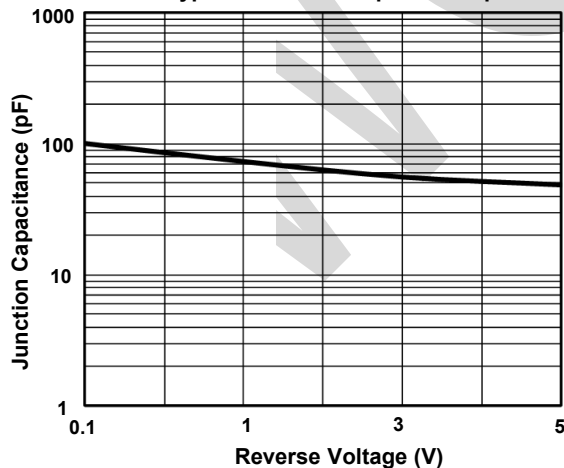
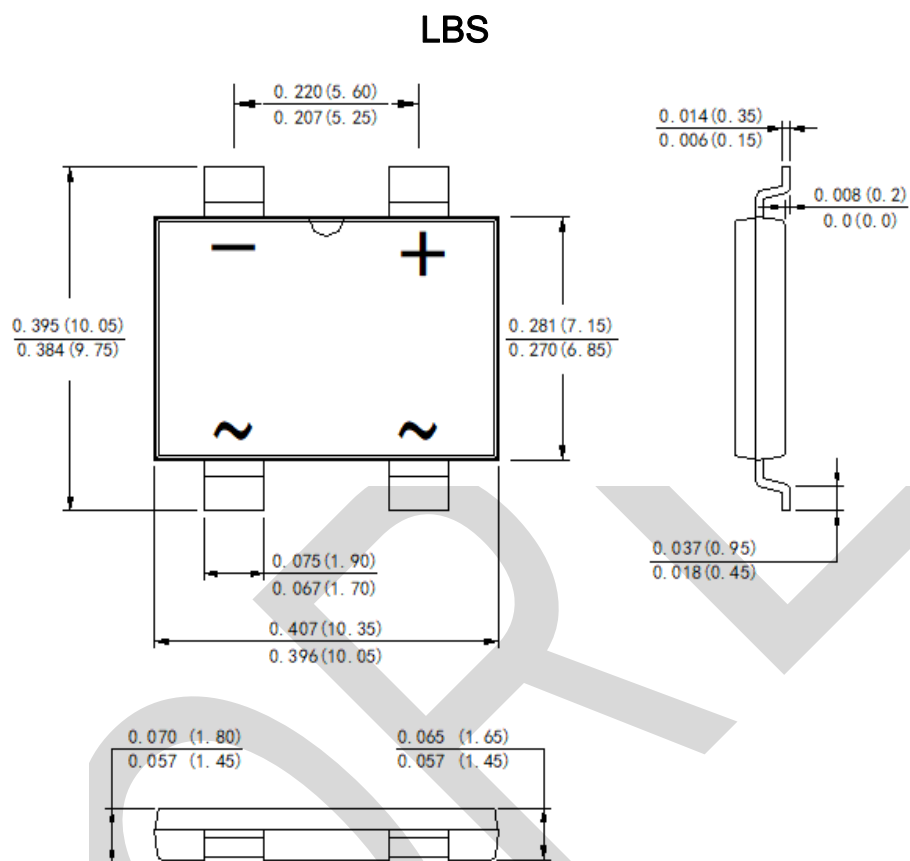


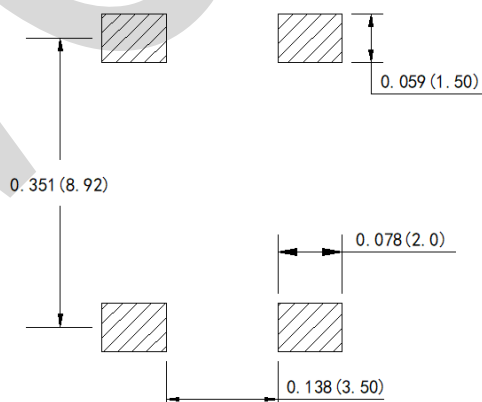
FIG.5 Typical Junction Capacitance per Diode



PACKAGE OUTLINE DIMENSIONS

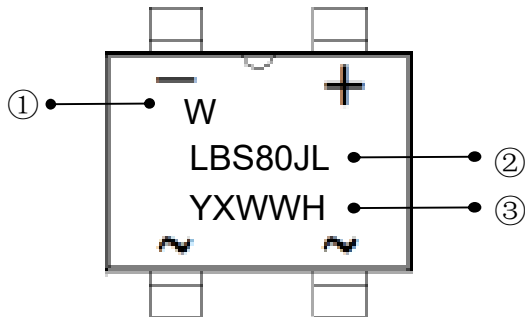


Suggested PCB printfoot layout



Unit: inches (mm)

Marking Information



①W : Company's trademark

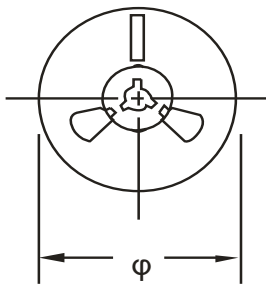
②Product model : LBS80JL

③PDC information:

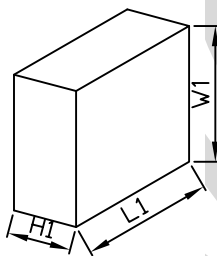
Y X WW H
 H:Halogen-free
 WW:Week code(01 to 53)
 X:Internal identification code
 Y:Year code(ex:0=2020)

Packaging Information

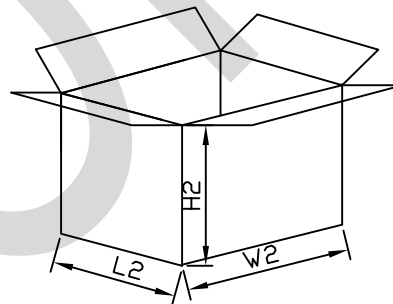
1.Reel Dimensions



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	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									