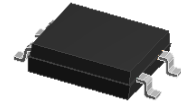


## Features

- Glass passivated standard bridge rectifiers
- Ideal for automated placement
- Low forward voltage drop
- Low leakage current
- Moisture sensitivity: level 1, per J-STD-020
- Solder dip 260 °C, 10 s
- Low profile , Max Height 1.35mm
- Marking LD02~LD10



LPMB

## TYPICAL APPLICATIONS

For use of general purpose AC to DC bridge rectification in power supply , charger , office appliance , home appliance and telecom device.

MAXIMUM RATINGS (TA = 25 °C unless otherwise noted)							
PARAMETER	SYMBOL	LMD02	LMD04	LMD06	LMD08	LMD10	UNIT
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	200	400	600	800	1000	V
Maximum RMS voltage	V <sub>RMS</sub>	140	280	420	560	700	V
Maximum DC blocking voltage	V <sub>DC</sub>	200	400	600	800	1000	V
Maximum average forward rectified current	I <sub>F(AV)</sub>	0.5 <sup>(1)</sup> 0.8 <sup>(2)</sup>					A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	30					A
Rating for fusing(t<8.3ms)	i <sup>2</sup> t	3.7					A <sup>2</sup> sec
Operating junction and storage temperature range	T <sub>J</sub> , T <sub>STG</sub>	- 55 to + 150					°C

ELECTRICAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)								
PARAMETER	TEST CONDITIONS	SYMBOL	LMD02	LMD04	LMD06	LMD08	LMD10	UNIT
Maximum instantaneous forward voltage	0.4 A	V <sub>F</sub>	1				Volts	
Maximum DC reverse current at rated DC blocking voltage	TA=25 TA=125	I <sub>R</sub>	5 100				μA	
Typical junction capacitance	4.0 V, 1 MHz	C <sub>J</sub>	15				pF	

THERMAL CHARACTERISTICS							
PARAMETER	SYMBOL	LMD02	LMD04	LMD06	LMD08	LMD10	UNIT
Typical thermal resistance	R <sub>θJA</sub> R <sub>θJA</sub> R <sub>θJL</sub>	85 <sup>(1)</sup> 70 <sup>(2)</sup> 20 <sup>(1)</sup>				Volts	

- Notes:
1. On glass epoxy PCB, mounted on 1.3\*1.3mm solder pads
  2. On 20\*20mm aluminum substrate PCB with 1.3\*1.3mm solder pads

## RATINGS AND CHARACTERISTICS CURVES

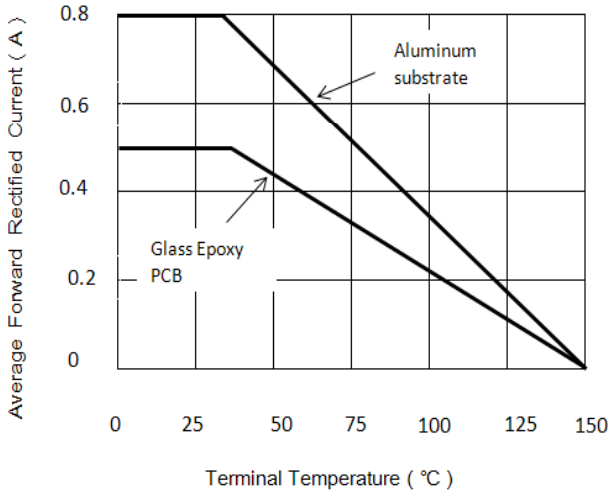


Figure 1. Forward Current Derating Curve

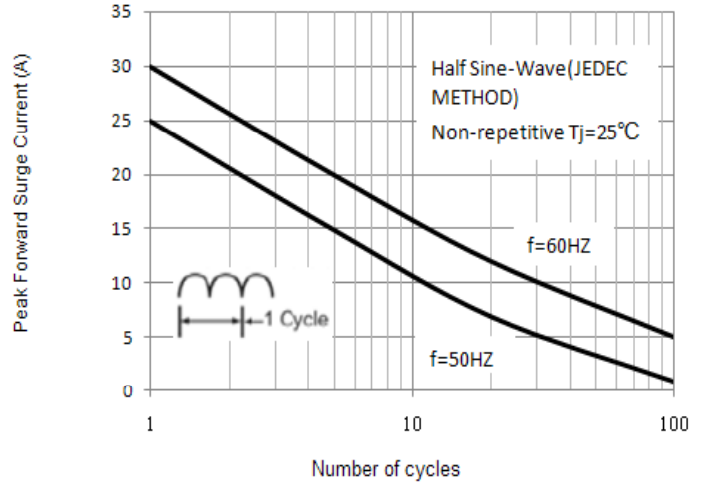


Figure 2. Maximum Non-repetitive Surge Current Per Leg

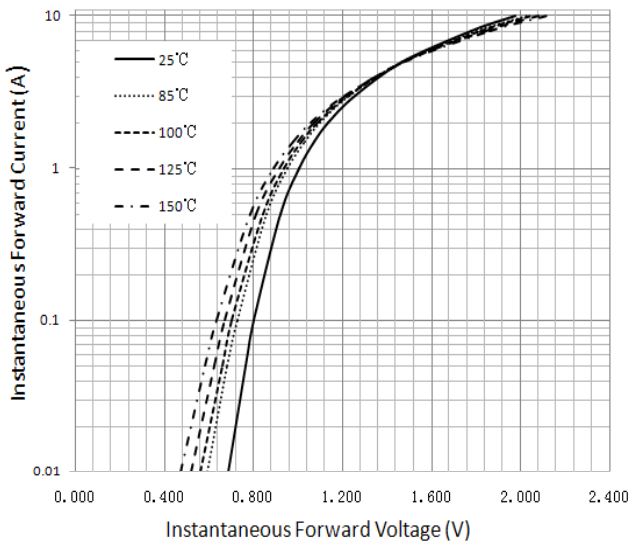


Figure 3. Typical Forward Characteristics

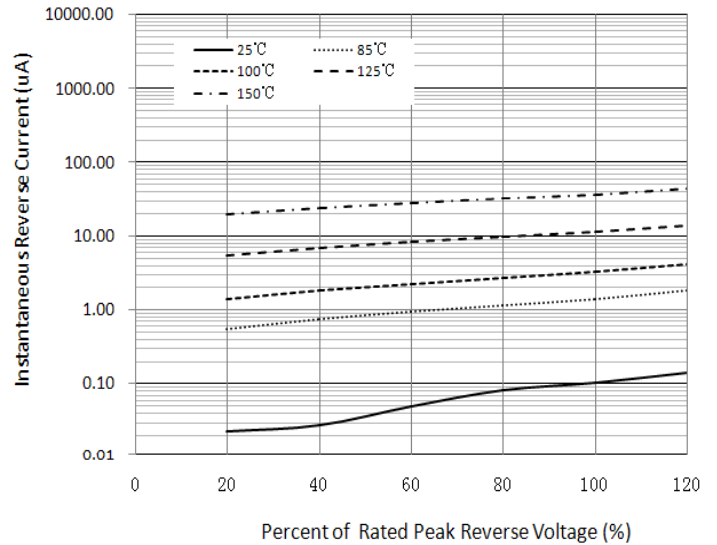
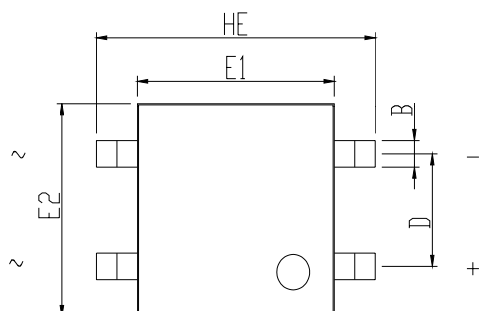
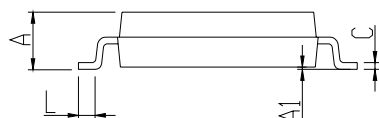


Figure 4. Typical Reverse Characteristics

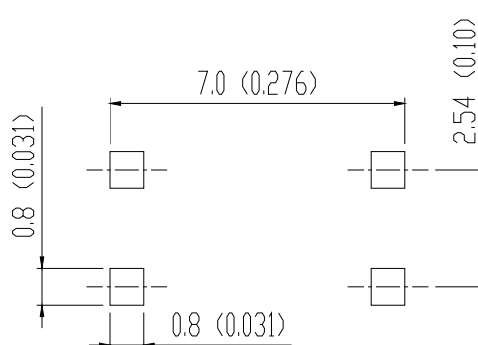
## PACKAGE OUTLINE DIMENSIONS



DIM	Unit: mm		Unit: inch	
	MIN	MAX	MIN	MAX
A	1.2	1.35	0.047	0.053
A1	0	0.1	0.000	0.004
B	0.5	0.75	0.020	0.030
C	0.1	0.25	0.004	0.010
D	2.54 typ.		0.10 typ.	
E1	4.7	4.9	0.185	0.193
E2	4.7	4.9	0.185	0.193
L	0.4	0.7	0.016	0.028
HE	6.65	6.95	0.262	0.274



Mounting pad layout in mm(inch)



## PACKING INFORMATION

### Packing quantities:

3000 pcs/Reel, 14 Reels/Box; 12mm Tape, 13" Reel

### Tape & Reel Specification

