

## 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 seconds



LM10

## Applications

For use of general purpose AC-DC bridge rectifications in power supplies, chargers, office appliances, home appliances and telecom devices.



## Maximum Ratings ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	LM02	LM04	LM06	LM08	LM10	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	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)	$I_{FSM}$	35					A
Rating for Fusing ( $t < 8.3\text{ms}$ )	$I^2t$	5.0					$\text{A}^2\text{sec}$
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	- 55 to + 150					$^\circ\text{C}$

## Electrical Characteristics ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Test Conditions	Symbol	LM02	LM04	LM06	LM08	LM10	Unit
Maximum Instantaneous Forward Voltage	1 A	$V_F$	1				V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_A = 25^\circ\text{C}$	$I_R$	5				$\mu\text{A}$	
	$T_A = 125^\circ\text{C}$		50					
Typical Junction Capacitance	4.0 V, 1 MHz	$C_J$	15				pF	

## Thermal Characteristics

Parameter	Symbol	LM02	LM04	LM06	LM08	LM10	Unit
Parameter	$R_{\theta JA}$	85 <sup>(1)</sup>				$^\circ\text{C/W}$	
	$R_{\theta JA}$	70 <sup>(2)</sup>					
	$R_{\theta JL}$	20 <sup>(1)</sup>					

- 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 solderr pads

## Ratings and Characteristics Curves

( $T_A = 25^\circ\text{C}$  unless otherwise noted)

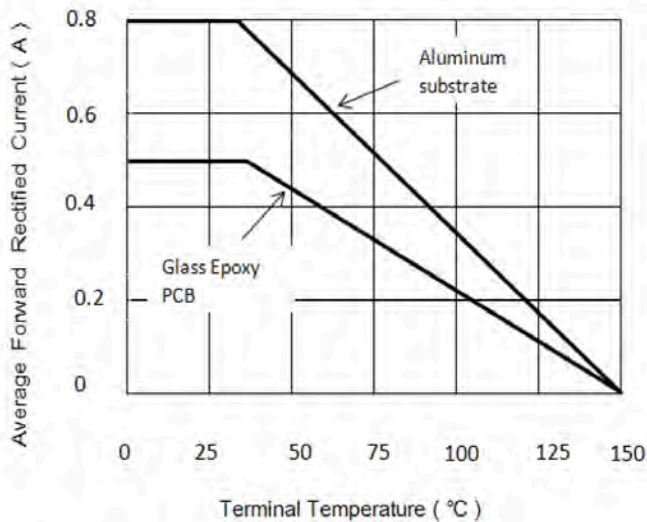


Figure 1. Forward Current Derating Curve

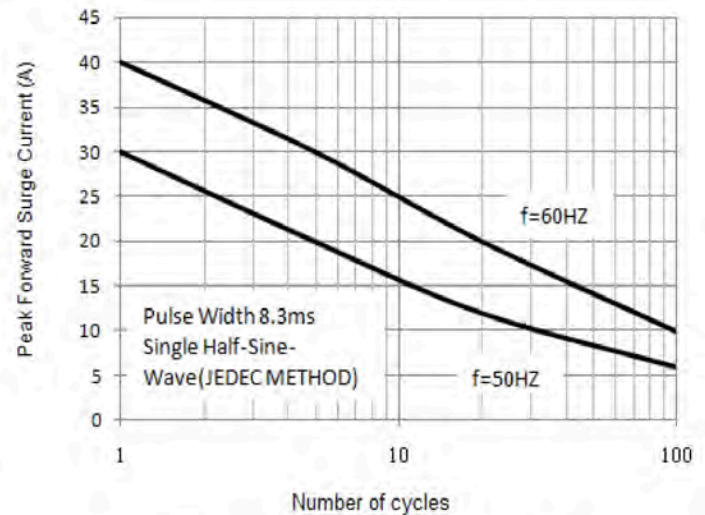


Figure 2. Maximum Non-repetitive Surge Current Per Leg

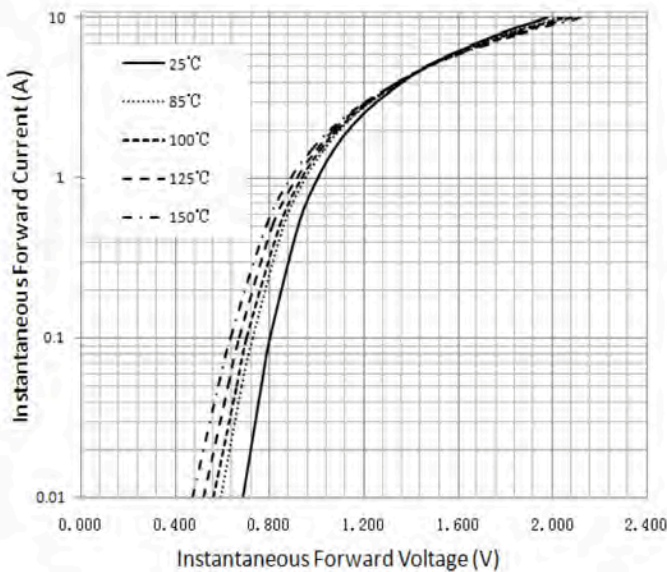


Figure 3. Typical Forward Characteristics

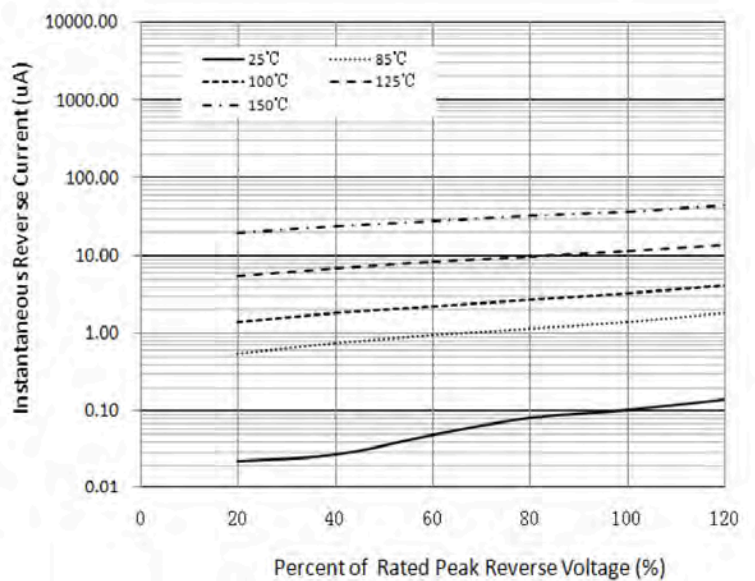


Figure 4. Typical Reverse Characteristics

## Package Outline Dimensions

LPMB



DIM	Unit: mm		Unit: inch	
	MIN	MAX	MIN	MAX
A	1.25	1.35	0.049	0.053
A1	0	0.1	0.000	0.004
B	0.55	0.75	0.022	0.030
C	0.1	0.25	0.004	0.010
D	2.49	2.59	0.098	0.102
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	6.9	0.262	0.272

### Mounting pad layout

in mm(inch)



## Packing Information

### Packing quantities:

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

### Tape & Reel Specification

