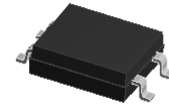
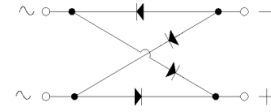


## Features

- Glass passivated Fast Recovery 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 1.30mm



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	LMR02A	LMR04A	LMR06A	LMR08A	LMR10A	Unit
Maximum repetitive peak reverse voltage	VRRM	200	400	600	800	1000	V
Maximum RMS voltage	VRMS	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	200	400	600	800	1000	V
Maximum average output rectified current	Io(AV)	0.6 <sup>(1)</sup>					A
		1.2 <sup>(2)</sup>					
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	IFSM	40					A
Rating for fusing(t<8.3ms)	I <sup>2</sup> t	6.5					A <sup>2</sup> sec
Operating junction and storage temperature range	TJ, TSTG	- 55 to + 150					°C

Electrical Characteristics (TA = 25 °C unless otherwise noted)								
Parameter	Test Conditions	Symbol	LMR02A	LMR04A	LMR06A	LMR08A	LMR10A	Unit
Maximum instantaneous forward voltage	IF=0.6 A, TA=25°C	V <sub>F</sub>	1.3					Volts
Maximum DC reverse current at rated DC blocking voltage	TA=25°C	I <sub>R</sub>	5					µA
	TA=125°C		100					
Typical reverse recovery time	IF=0.5A, IR=1.0A, Itr=0.25A	t <sub>rr</sub>	150		250	500	nS	
Typical junction capacitance	4.0 V, 1 MHz	C <sub>J</sub>	18					pF

Thermal Characteristics							
Parameter	Symbol	LMR02A	LMR04A	LMR06A	LMR08A	LMR10A	Unit
Typical thermal resistance	R <sub>θJA</sub> <sup>(1)</sup>	60					°C/W
	R <sub>θJA</sub> <sup>(2)</sup>	50					
	R <sub>θJC</sub> <sup>(1)</sup>	20					

- 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



# LMR02A thru LMR10A

Low Profile Miniature Single Phase Surface Mount Bridge Rectifiers  
Reverse Voltage 200~1000V Output Current 1.2

## Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

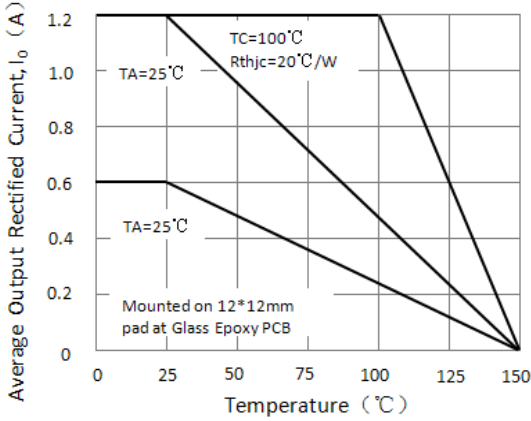


Figure 1. Output Rectifier Current Derating Curve

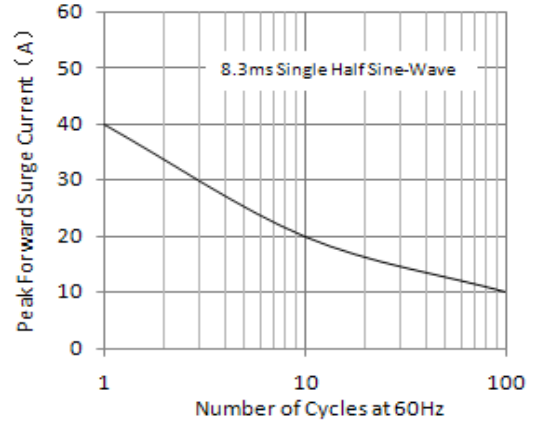


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

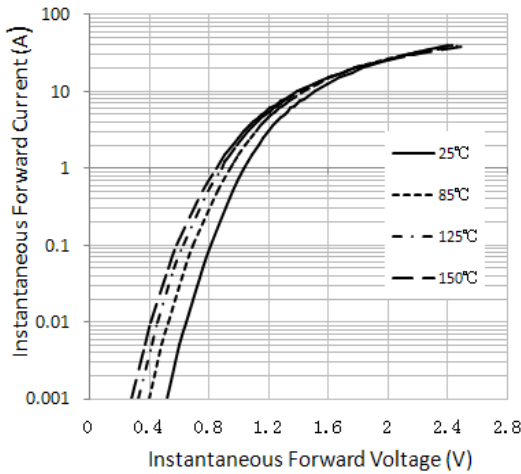


Figure 3. Typical Forward Characteristics

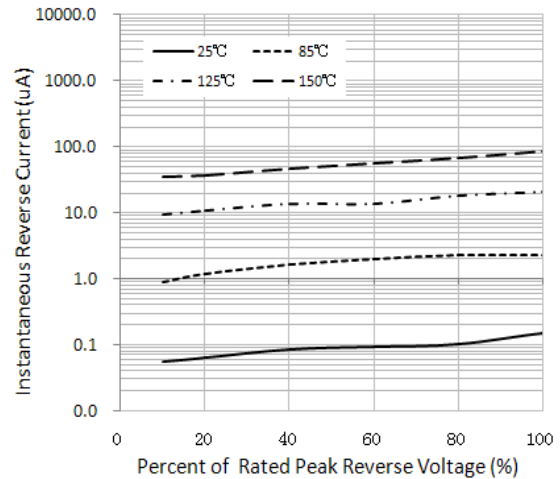


Figure 4. Typical Reverse Characteristics

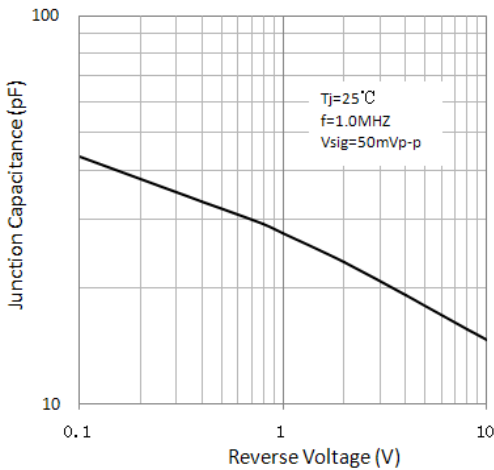


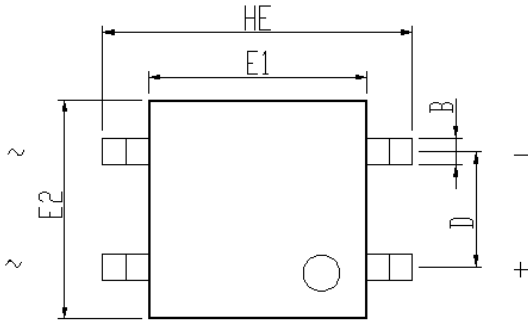
Figure 5. Typical Junction Capacitance



# LMR02A thru LMR10A

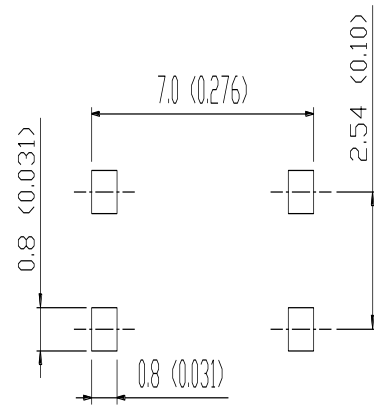
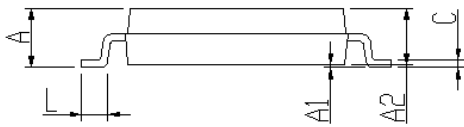
Low Profile Miniature Single Phase Surface Mount Bridge Rectifiers  
 Reverse Voltage 200~1000V Output Current 1.2

## 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)

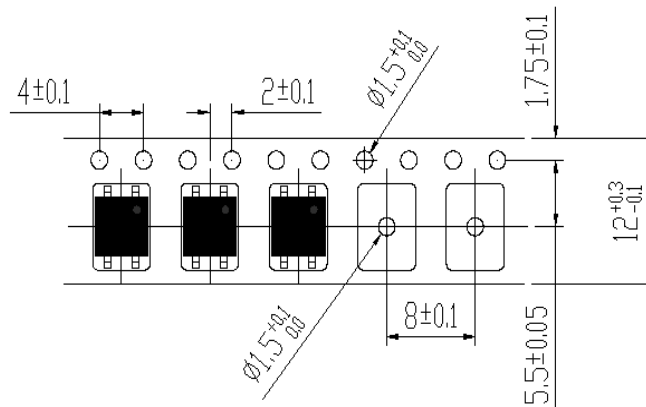


## Packing Information

Packing quantities:

4000 pcs/Reel, 15 Reels/Box; 12mm Tape, 13" Reel

Tape & Reel Specification





# LMR02A thru LMR10A

Low Profile Miniature Single Phase Surface Mount Bridge Rectifiers  
Reverse Voltage 200~1000V Output Current 1.2

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