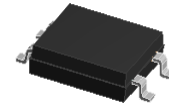
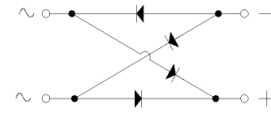


Features

- 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 ⁽¹⁾					A
		1.2 ⁽²⁾					
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 ² t	6.5					A ² 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 _F	1.3					Volts
Maximum DC reverse current at rated DC blocking voltage	TA=25°C	I _R	5					μA
	TA=125°C		100					
Typical reverse recovery time	I _F =0.5A, I _R =1.0A I _{rr} =0.25A	t _{rr}	150		250	500		nS
Typical junction capacitance	4.0 V, 1 MHz	C _J	18					pF

Thermal Characteristics

Parameter	Symbol	LMR02A	LMR04A	LMR06A	LMR08A	LMR10A	Unit
Typical thermal resistance	R _{θJA} ⁽¹⁾	60					°C/W
	R _{θJA} ⁽²⁾	50					
	R _{θJC} ⁽¹⁾	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

Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

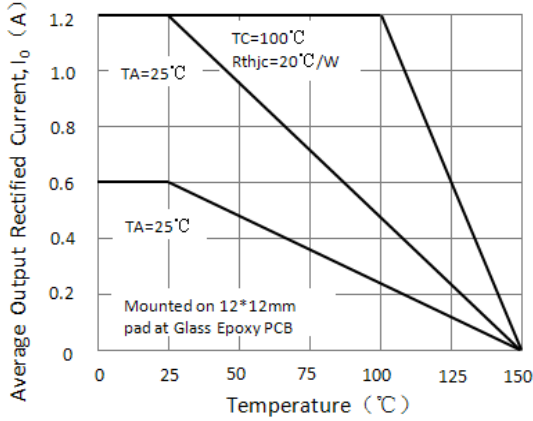


Figure 1. Output Rectifier Current Derating Curve

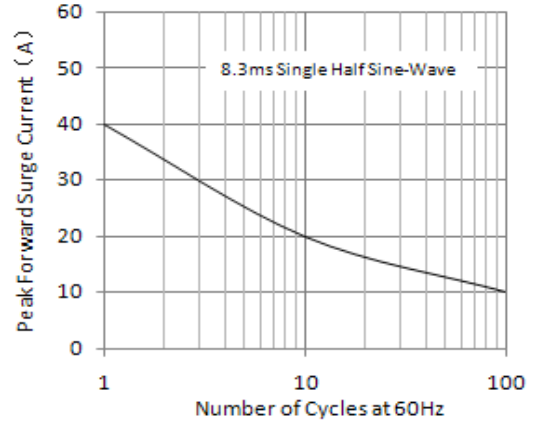


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

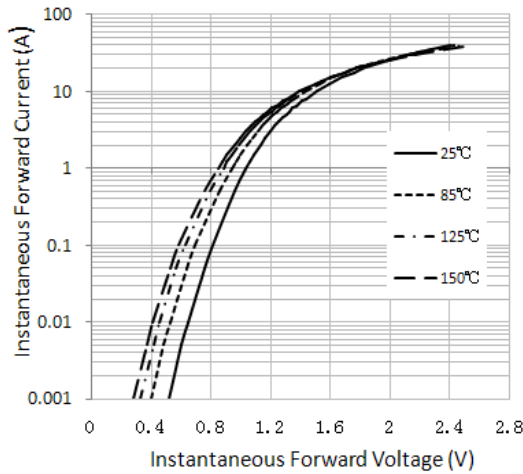


Figure 3. Typical Forward Characteristics

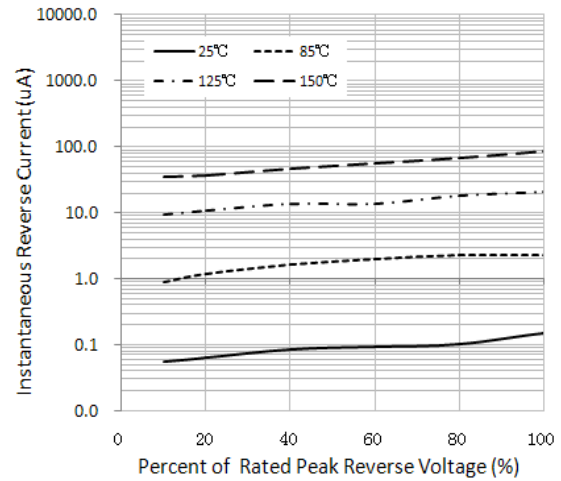


Figure 4. Typical Reverse Characteristics

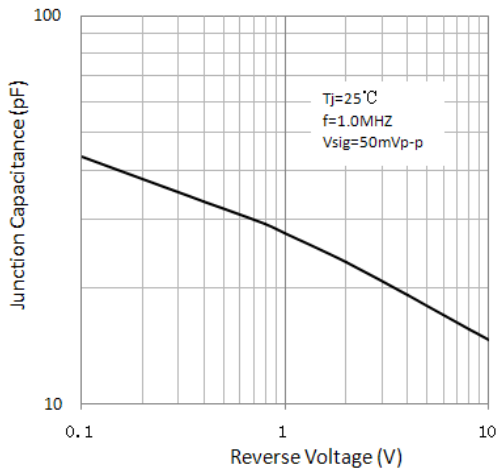
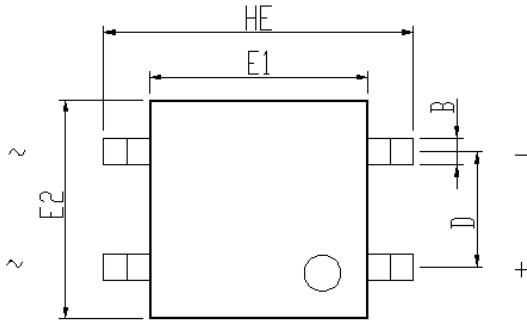


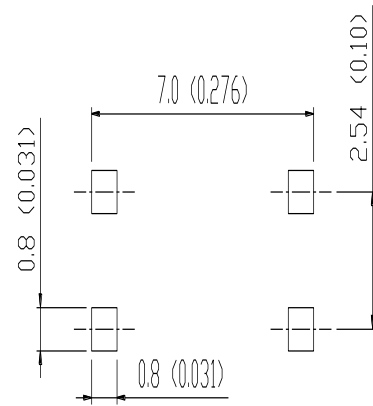
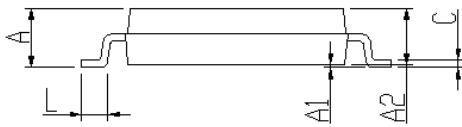
Figure 5. Typical Junction Capacitance

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)

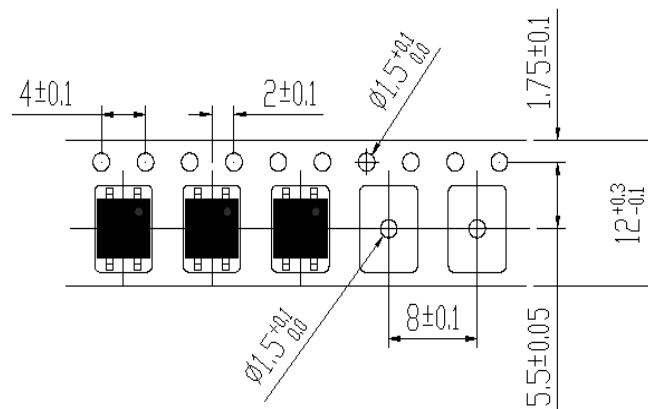


Packing Information

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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