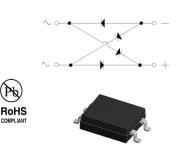


Low Profile Miniature Single Phase Surface Mount Bridge Rectifiers Reverse Voltage 200~1000V Output Current 1.5A

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

Typical Applications



LPMB

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

Maximum Ratings (TA = 25 °C unless otherwise noted)

Parameter	Symbol	LMR02C	LMR04C	LMR06C	LMR08C	LMR10C	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	lo(AV)	0.75 (1)					А
		1.5 (2)					
Peak forward surge current 8.3 ms single half sine- wave superimposed on rated load	IFSM	50				A	
Rating for fusing(t<8.3ms)	l ² t	10.0					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	LMR02C	LMR04C	LMR06C	LMR08C	LMR10C	Unit
Maximum instantaneous forward voltage	IF=0.75A, TA=25℃	V _F	1.3				Volts	
Maximum DC reverse current at rated DC blocking voltage	TA=25℃ TA=125℃	I _R	5 100				μΑ	
Typical reverse recovery time	I _F =0.5A,I _R =1.0A, I _{rr} =0.25A	t _{rr}	1:	50	250	50	00	nS
Typical junction capacitance	4.0 V, 1 MHz	CJ	20			pF		

Thermal Characteristics

Parameter	Symbol	LMR02C	LMR04C	LMR06C	LMR08C	LMR10C	Unit
Typical thermal resistance	$R_{\theta JA}^{(1)}$	60					°C/W
	$R_{\theta JA}^{(2)}$	50					
	$R_{\theta JC}^{(1)}$	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



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Ratings and Characteristics Curves

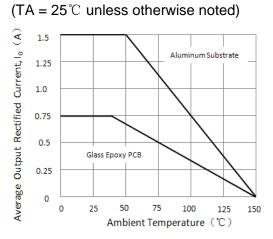


Figure 1. Output Rectifier Current Derating Curve

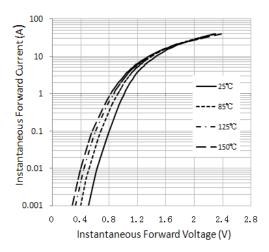


Figure 3. Typical Forward Characteristics

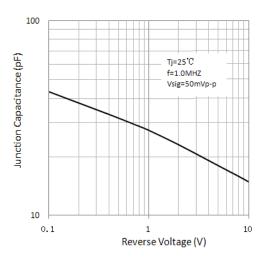
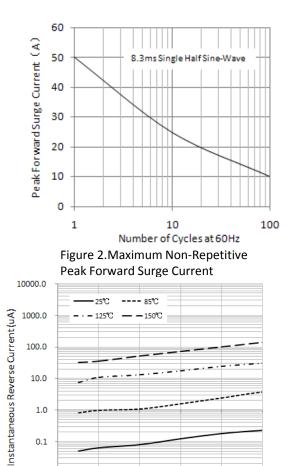


Figure 5. Typical Junction Capacitance



0 20 40 60 80 100 Percent of Rated Peak Reverse Voltage (%)

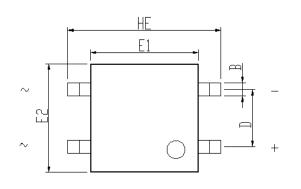
Figure 4. Typical Reverse Characteristics

0.0



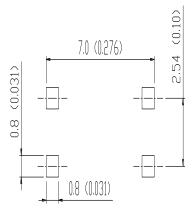
Low Profile Miniature Single Phase Surface Mount Bridge Rectifiers Reverse Voltage 200~1000V Output Current 1.5A

Package Outline Dimensions



DIM	Unit:	mm	Unit: inch		
	MIN	MAX	MIN	MAX	
А	1.2	1.35	0.047	0.053	
A1	0	0.1	0.000	0.004	
В	0.5	0.75	0.020	0.030	
С	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)

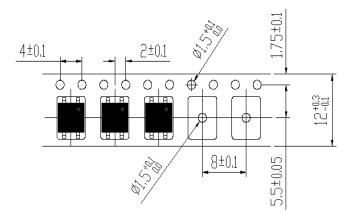




Packing Information

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

Tape & Reel Specification





Low Profile Miniature Single Phase Surface Mount Bridge Rectifiers Reverse Voltage 200~1000V Output Current 1.5A

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