

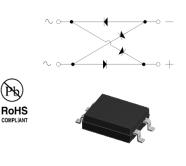
## LM02 thru LM10 Low Profile Miniature Single Phase Surface Mount Bridge Rectifiers Reverse Voltage 200~1000V Output Current 0.8A

## **Features**

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- · 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 1.30mm

# **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	LM02	LM04	LM06	LM08	LM10	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) <sup>(1)</sup>	0.8				А	
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	IFSM	35				A	
Rating for fusing(t<8.3ms)	l <sup>2</sup> t	5.0				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	LM02	LM04	LM06	LM08	LM10	Unit
Maximum instantaneous forward voltage	IF=0.4 A, TA=25℃	V <sub>F</sub>	iii				Volts	
Maximum DC reverse current at rated DC	<b>TA=25</b> ℃	I.	5					μΑ
blocking voltage	TA=125℃	I <sub>R</sub>	100					
Typical junction capacitance	4.0 V, 1 MHz	CJ	15				pF	

Thermal Characteristics								
Parameter	Symbol	LM02	LM04	LM06	LM08	LM10	Unit	
Typical thermal resistance <sup>(1)</sup>	R <sub>θJA</sub>	60					°C/W	
	$R_{ extsf{ heta}JC}$	25					C/W	
Notes: 1. On glass enow, PCB, mounted on 1.3*1.3mm solder pads								

Notes:

On glass epoxy PCB, mounted on 1.3\*1.3mm solder pads



## **Ratings and Characteristics Curves**

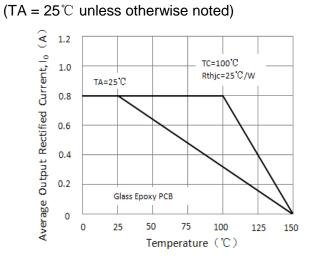


Figure 1. Output Rectifier Current Derating Curve

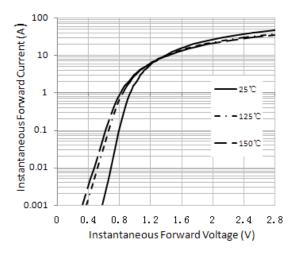


Figure 3. Typical Forward Characteristics

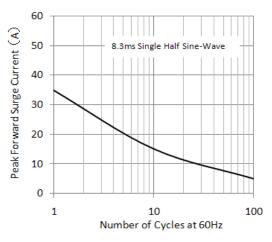


Figure 2.Maximum Non-Repetitive Peak Forward Surge Current

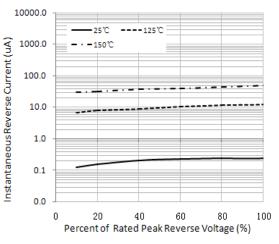
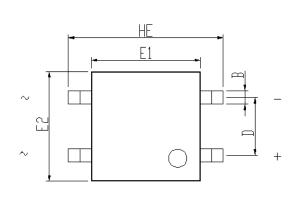


Figure 4. Typical Reverse Characteristics



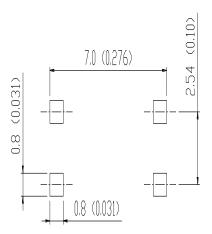
# **Package Outline Dimensions**



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)



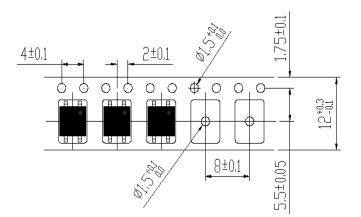


## **Packing Information**

#### Packing quantities:

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

### **Tape & Reel Specification**





## **Disclaimers**

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