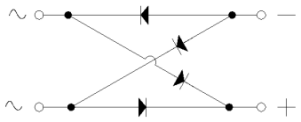
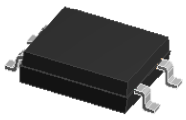
LMS36

Low Profile Surface Mount Schottky Bridge Rectifiers
Reverse Voltage 60V Output Current 3A

Features



RoHS COMPLIANT



LPMB

- Super Low VF Schottky barrier bridge rectifiers
- Low profile，Max Height 1.30mm
- Low forward voltage drop
- Low leakage current
- Moisture sensitivity: level 1, per J-STD-020
- AEC-Q101 qualified
- High temperature soldering guaranteed: 260℃/10 seconds
- Halogen-free according to IEC 61249-2-21 definition

Typical Applications

For use of fast swiching in RF module, lighting, cellular phone, portable device, power supplies and other consumer applications.

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

Parameter	Symbol	LMS36	Unit
Maximum repetitive peak reverse voltage	VRRM	60	V
Maximum RMS voltage	VRMS	42	V
Maximum DC blocking voltage	VDC	60	V
Maximum average output rectified current	Io(AV)[1)]	3.0	A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	IFSM	60	A
Operating junction temperature range	T_J	- 55 to + 150	°C
Storage temperature range	T_{STG}	- 55 to + 150	°C

Electrical Characteristics (TA = 25 °C unless otherwise noted)

Parameter	Test Conditions	Symbol	LMS36	Unit
Maximum instantaneous	IF=1.5A,TA=25℃	V_F	0.55	Volts
Maximum DC reverse current at rated DC blocking voltage	TA=25℃	I_R	200	uA
	TA=125℃		30	mA
Typical junction capacitance	4.0 V, 1 MHz	C_J	210	pF
Typical thermal resistance[1)]	juntion to ambient	$R_{\theta JA}$	50	℃/W

Notes: 1. On 20*20mm aluminum substrate PCB with 1.3*1.3mm solder pads

Ratings and Characteristics Curves

(TA = 25℃ unless otherwise noted)

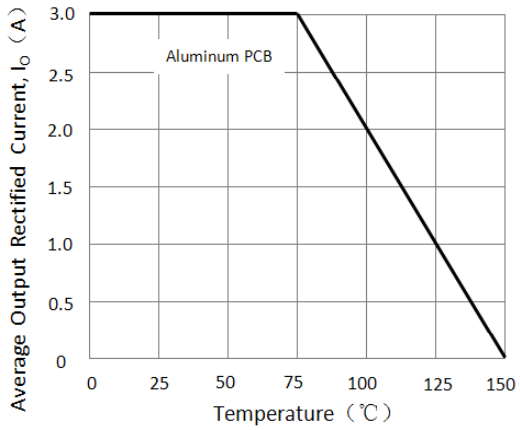


Figure 1.Output Rectifier Current Derating Curve

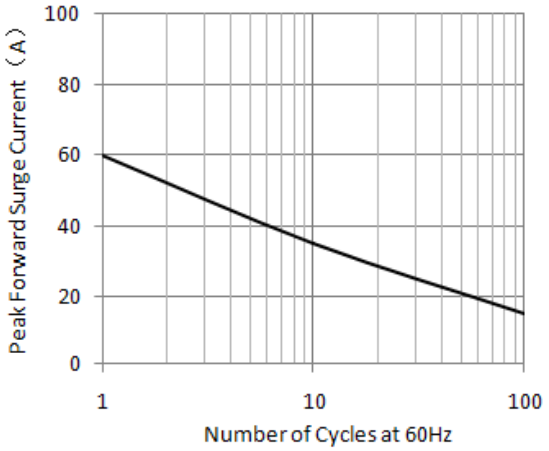


Figure 2.Maximum Non-Repetitive Peak Forward Surge Current

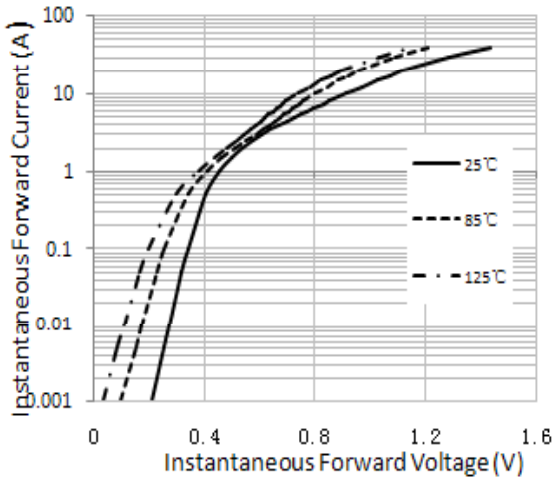


Figure 3. Typical Instantaneous Forward Characteristics

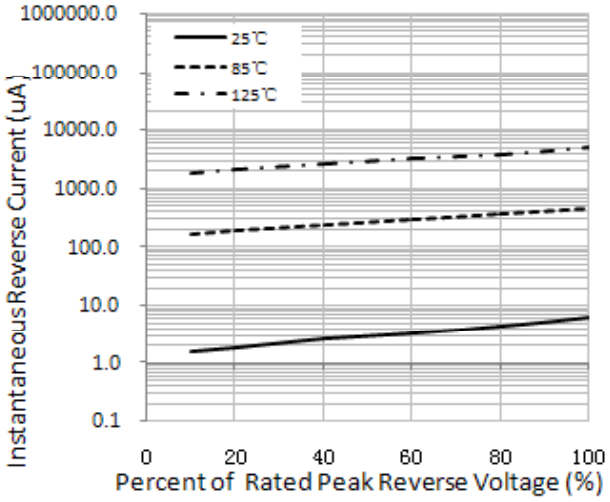


Figure 4. Typical Reverse Characteristics

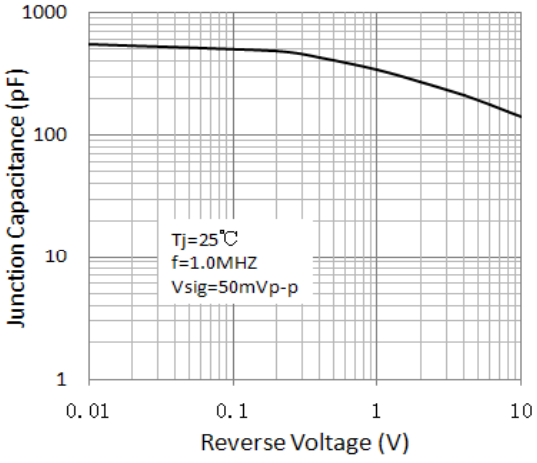
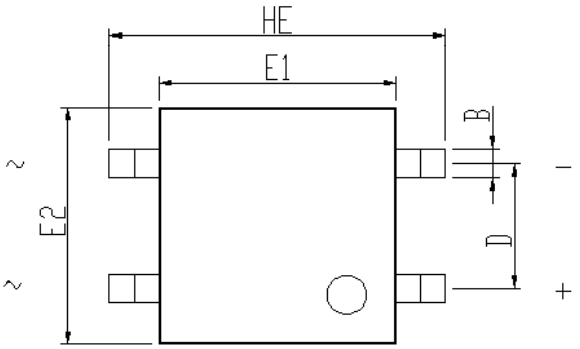
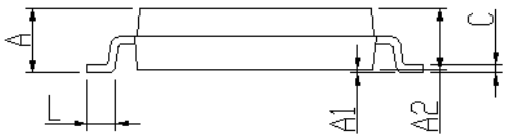


Figure 5. Typical Junction Capacitance

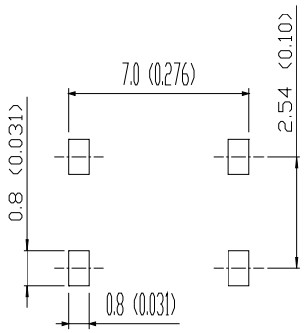
Package Outline Dimensions



DIM	Unit: mm		Unit: inch	
	MIN	MAX	MIN	MAX
A	1.2	1.3	0.047	0.051
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



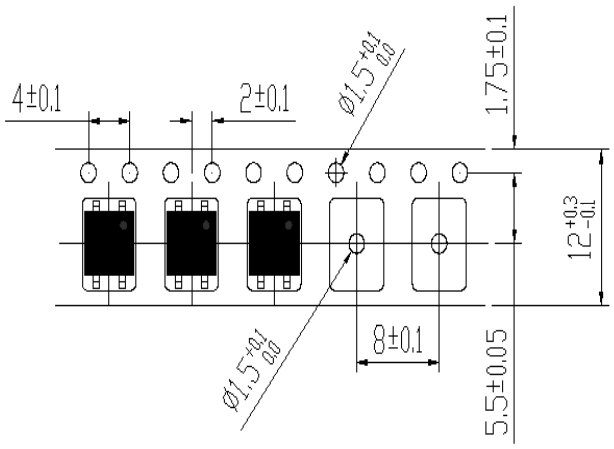
Mounting pad layout in mm(inch)



Packing Information

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

Tape & Reel Specification



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