

# LAMP0504MF

Rev.F Mar.-2016

Low Capacitance TVS Array in a SOT23-6 Plastic Package.

Small package saves board space Protects up to four I/O lines & power line Low capacitance for high-speed interfaces Low leakage current and clamping voltage Low operating voltage.

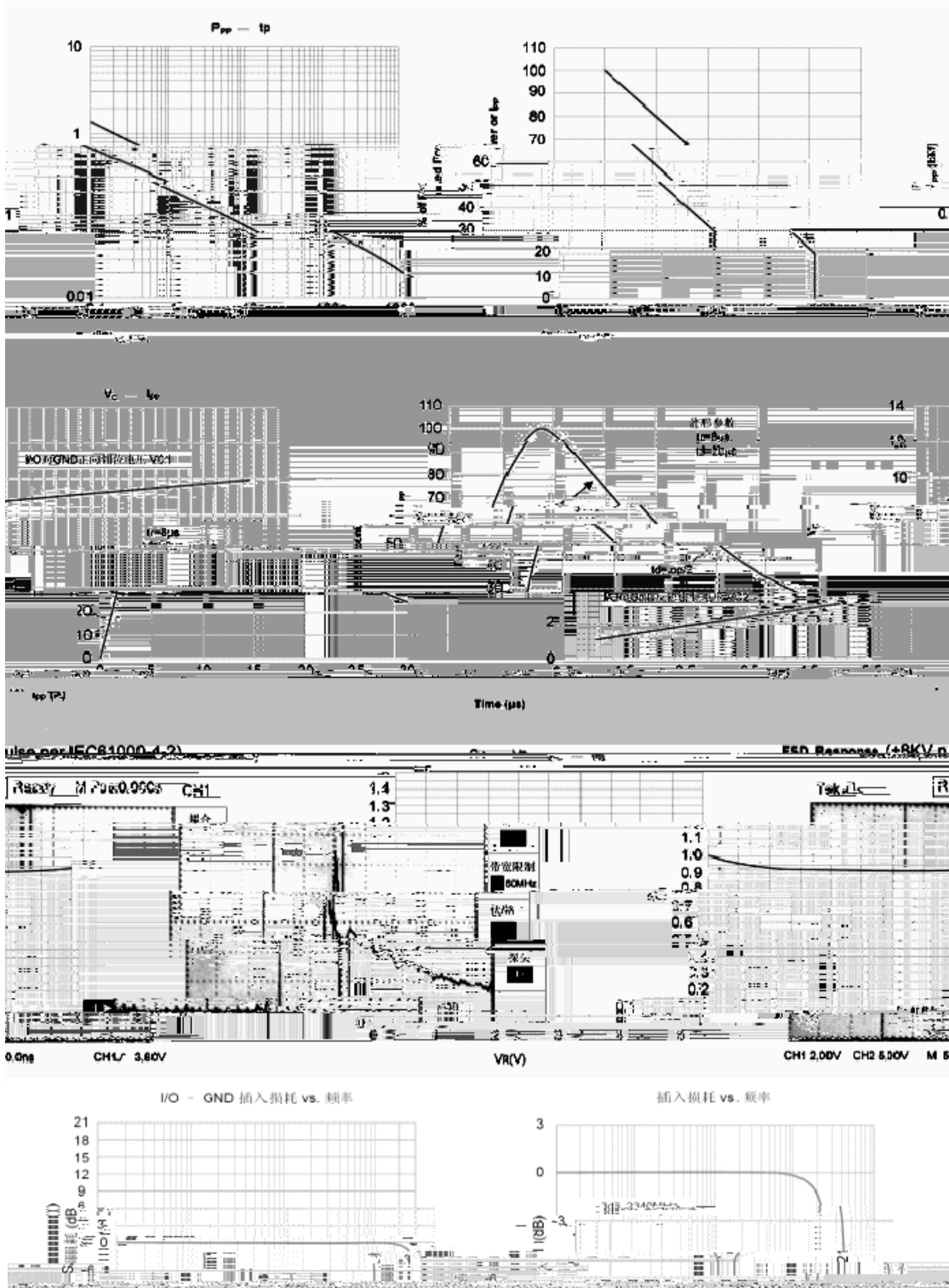

**/ Absolute Maximum Ratings(Ta=25 )**

Parameter	Symbol	Rating	Unit
Peak Pulse Power (tp = 8/20μs)	PPP	150	W
Peak Pulse Current (tp = 8/20μs)	IPP	6	A
ESD per IEC 61000-4-2 (Air)	VESD 1 IEC 61000-4-2 (Air)	±15	kV
ESD per IEC 61000-4-2 (Contact)	VESD 2 IEC 61000-4-2 (Contact)	±8	kV
Operating Temperature	TOPR	-55 to 125	
Storage Temperature	TSTG	-55 to 150	

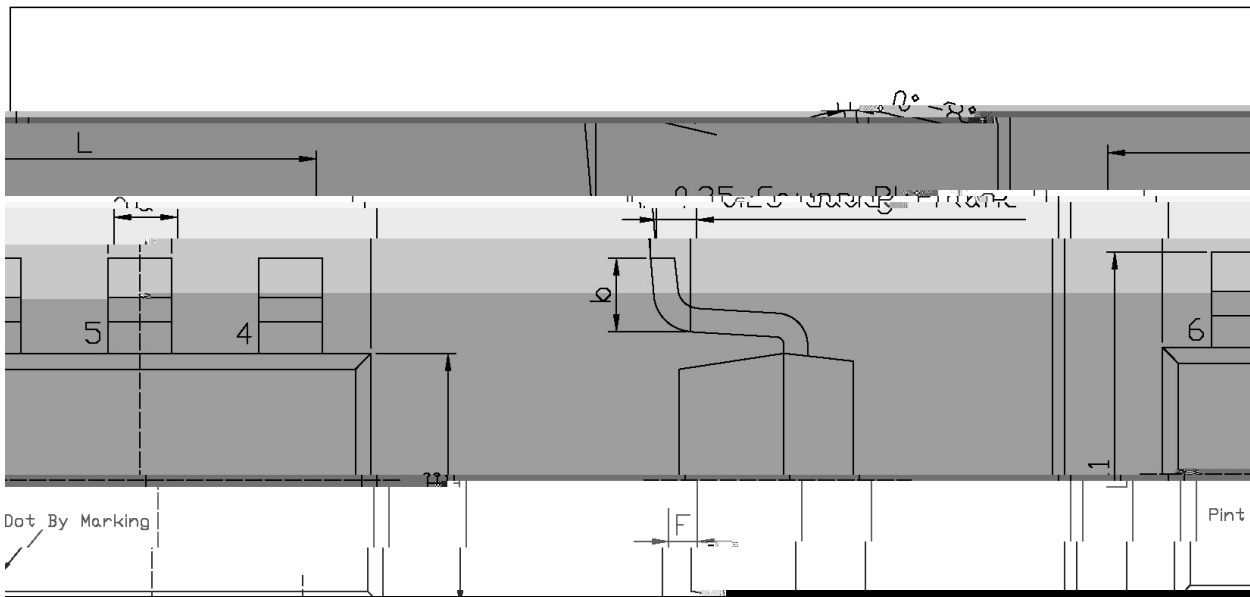
**/ Electrical Characteristics(Ta=25 )**

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Stand-Off Voltage	V <sub>RWM</sub>	Pin 5 to GND			5	V
Reverse Breakdown Voltage	V <sub>BR</sub>	Pin 5 to GND I <sub>t</sub> =1mA	6			V
Reverse Leakage Current	I <sub>R</sub>	V <sub>RWM</sub> =5V T=25 Pin 5 to GND			2	μA
Clamping Voltage	V <sub>C</sub>	I <sub>PP</sub> =1A tp=8/20μs Any I/O pin to GND		8.5	12	V
Junction Capacitance	C <sub>J1</sub>	V <sub>R</sub> =0V f=1MHz Any I/O pin to GND			3	pF
Junction Capacitance	C <sub>J2</sub>	V <sub>R</sub> =0V f=1MHz Between I/O pins			1.5	pF

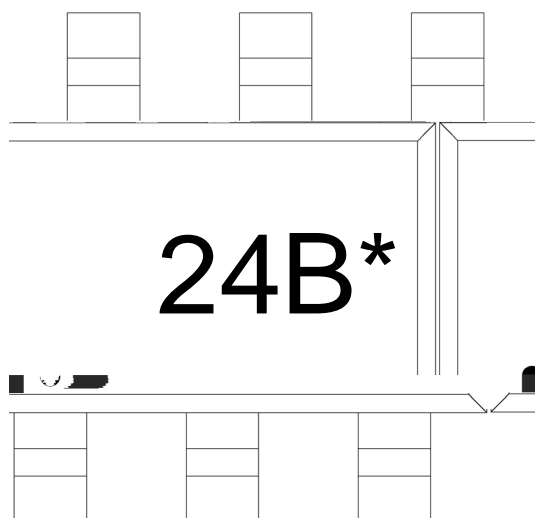
/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions

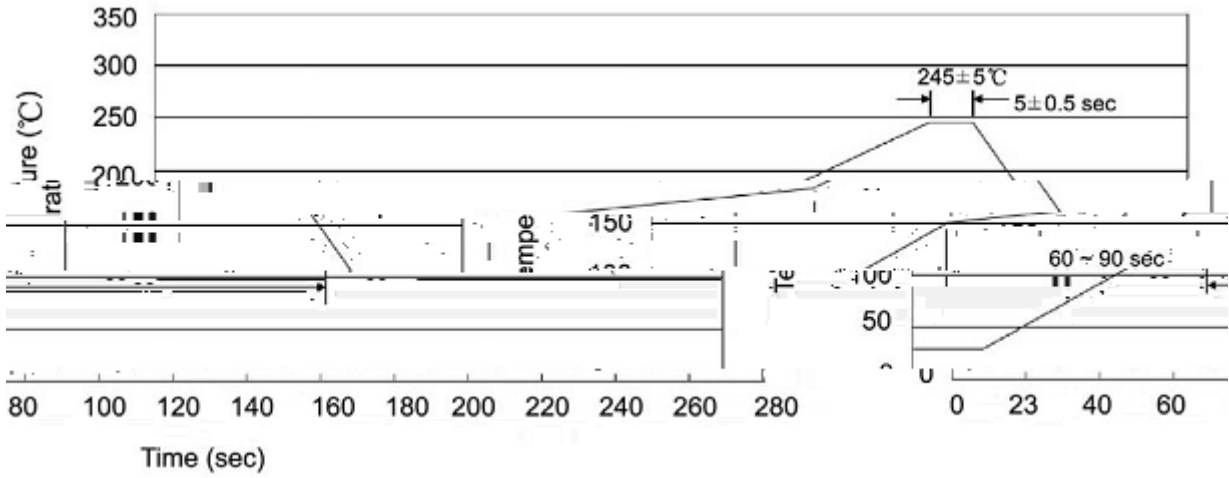


Note:

24B: Product Type Code

\*: Lot No. Code, code change with Lot No.

( ) / Resistance to Soldering Heat Test Conditions



Note:

- |   |     |     |    |          |   |
|---|-----|-----|----|----------|---|
| 1 | 25  | 150 | 60 | 90sec;   | 1.Preheating:25~150 , Time:60~90sec.    |
| 2 | 245 | 5   | 5  | 0.5sec;  | 2.Peak Temp.:245 5 , Duration:5 0.5sec. |
| 3 |     |     | 2  | 10 /sec. | 3. Cooling Speed: 2~10 /sec.            |

/ Resistance to Soldering Heat Test Conditions

260 5                      10 1 sec.                      Temp.:260 5                      Time:10 1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units				Dimension (unit mm <sup>3</sup> )		

/ Notices