

/ Descriptions

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

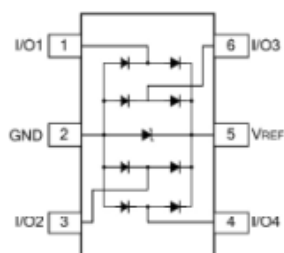
• / Features

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.

v / Applications

Transient protection for high-speed data lines to IEC 61000-4-2 (ESD) $\pm 15\text{kV}$ (air), $\pm 8\text{kV}$ (contact) for USB 2.0, Monitors and Flat Panel Displays.

≈ / Equivalent Circuit



∟ / Pinning



⌂ / Marking

Marking	24B*
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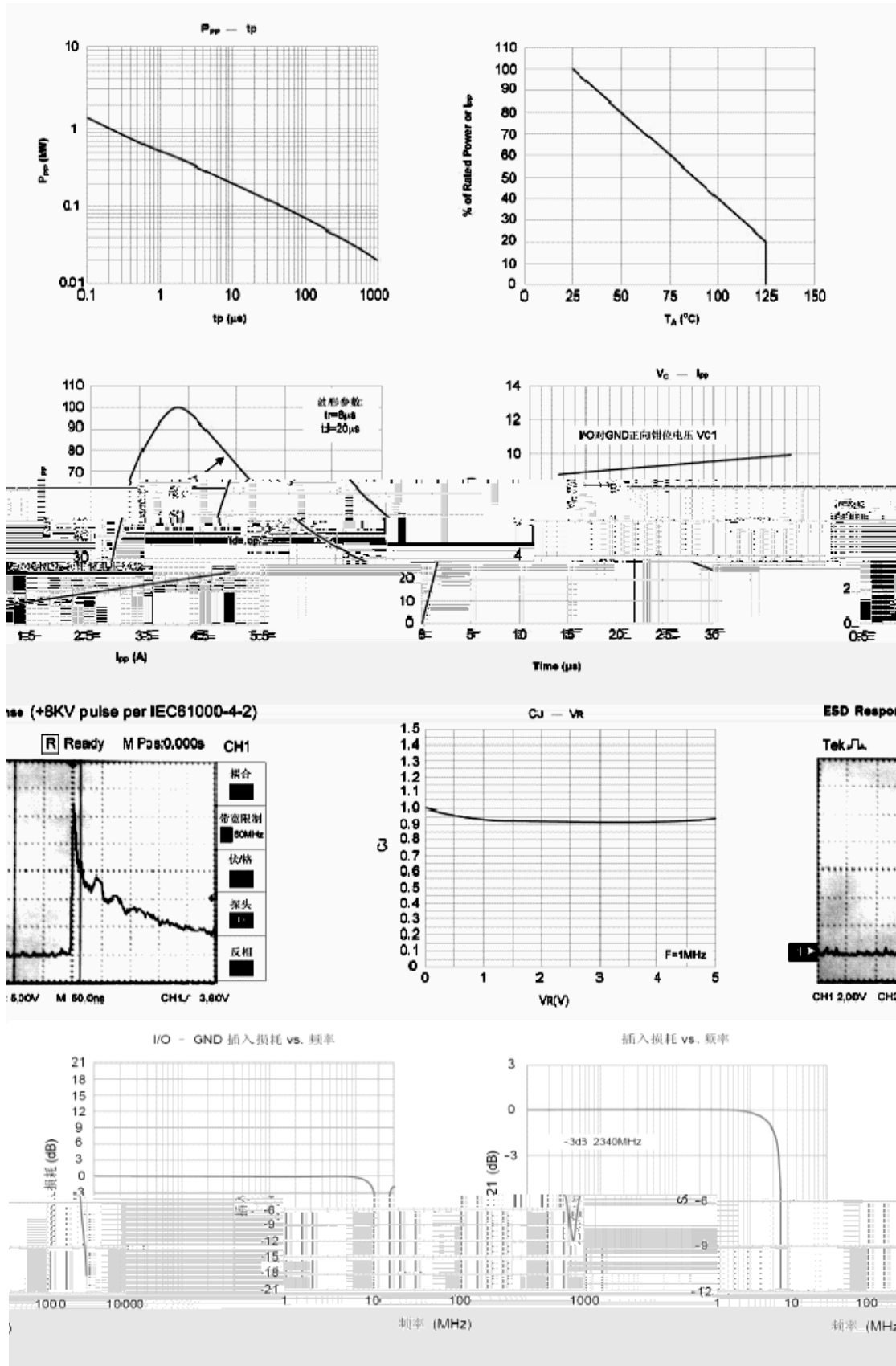
绝对最大额定值(Absolute Maximum Ratings)(Ta=25℃)

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	

电 气 特 性 (Electrical Characteristics)(Ta=25℃)

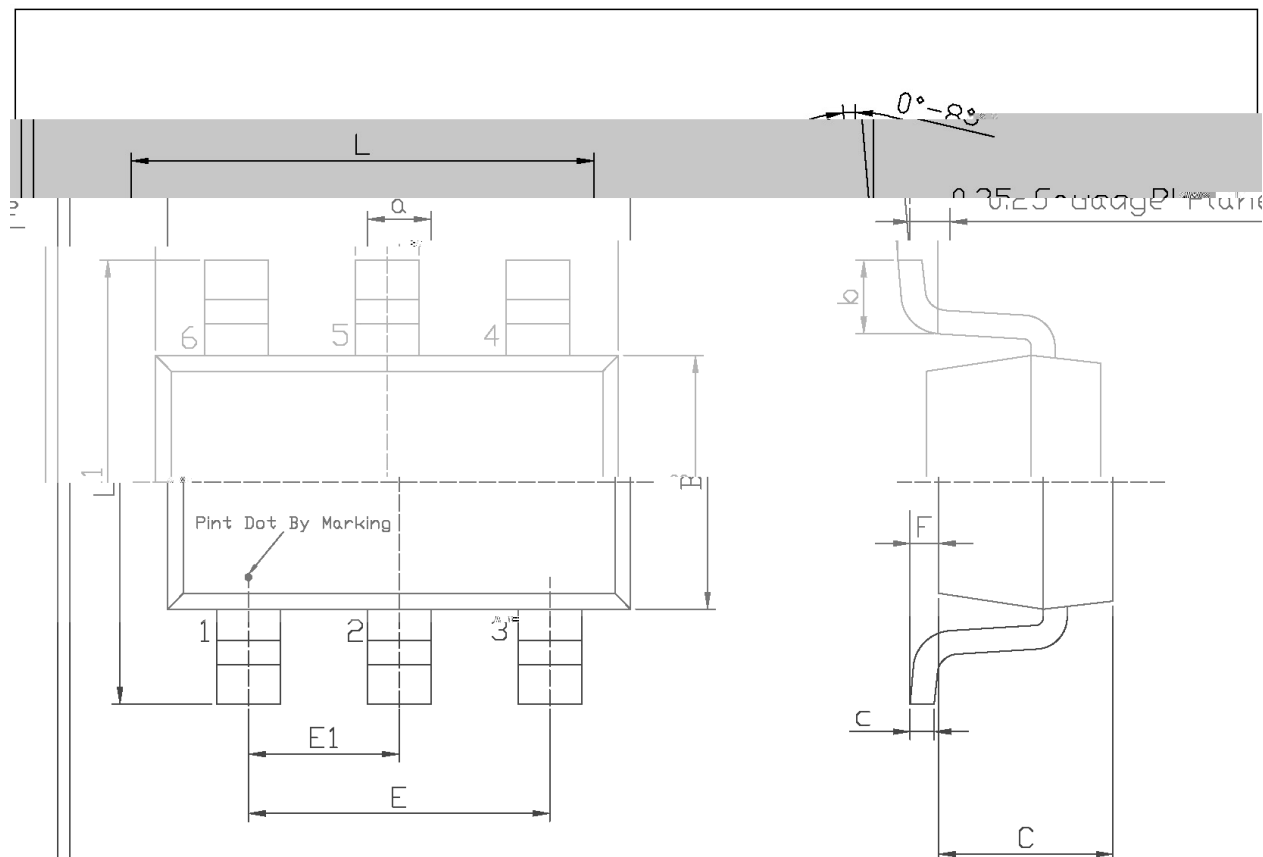
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Stand-Off Voltage	V _{RWM}	Pin 5 to GND			5	V
Reverse Breakdown Voltage	V _{BR}	Pin 5 to GND It=1mA	6			V
Reverse Leakage Current	I _R	V _{RWM} =5V T=25℃ Pin 5 to GND			2	μA
Clamping Voltage	V _C	I _{PP} =1A tp=8/20μs Any I/O pin to GND		8.5	12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

Electrical Characteristic Curve





/ Package Dimensions

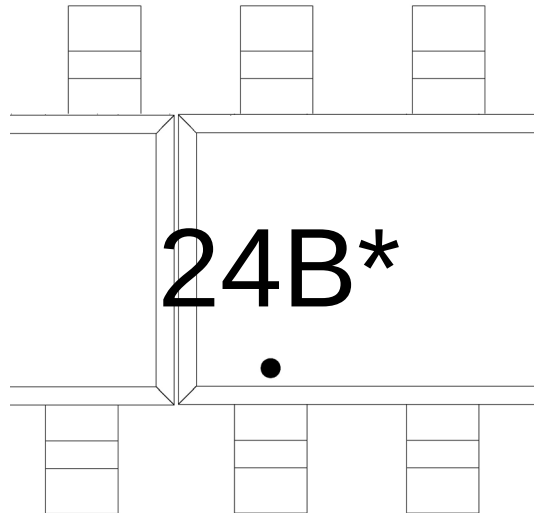


Unit: mm

Dimensions in millimeters			Dimensions in millimeters		
Symbol	Min	Max	Symbol	Min	Max
L	2.80	3.00	E1	0.50	1.00
B	1.50	1.70	a	0.35	0.50
C	0.90	1.30	C	0.10	0.20
E	1.80	2.00	b	0.25	0.50
			F	0	0.15

SOT23-6

/ Marking Instructions

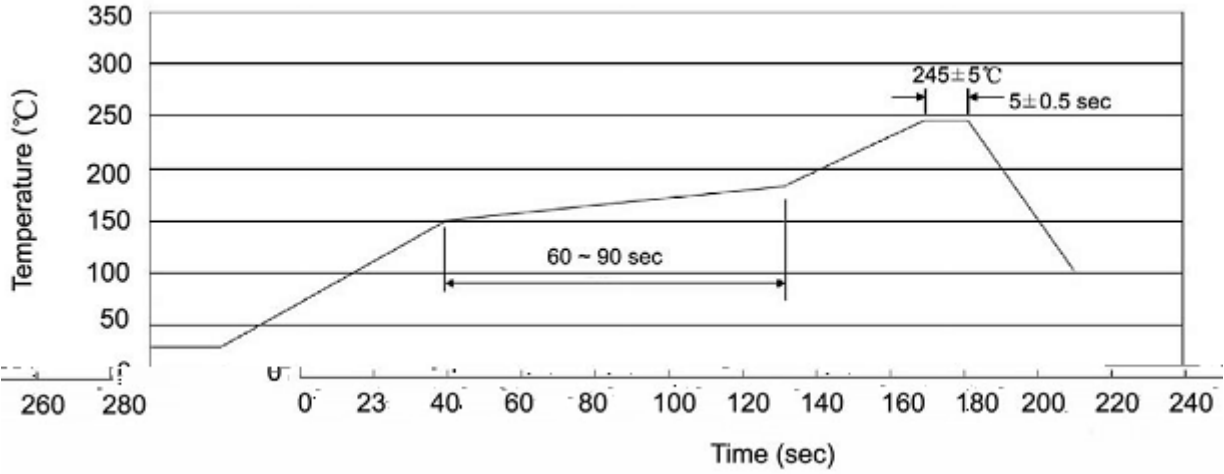


Note:

24B: Product Type Code

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

3. Soldering Temperature and Time



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. |

4. Resistance to Soldering Heat Test Conditions

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

5. Packaging SPEC.

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SOT23-5/6	3,000	10	30,000	4	120,000	7 ×8	210×205×205	445×230×435

6. Notices