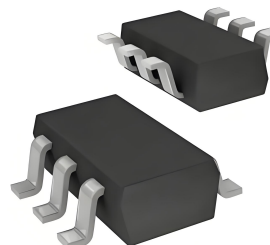


Features

- 60W ($t_p=8/20\mu s$) Peak Pulse Power per Line
- Low clamping voltage
- Low Leakage Current
- Solid-state silicon-avalanche technology
- Moisture sensitivity level: Level 1
- Up to 4 data lines and one power line protects
- Meet IEC61000-4-5(Lighting) 4.5A(8/20 μs)
- Meet IEC61000-4-2
- Contact discharge $\pm 15kV$
- Air discharge $\pm 20kV$



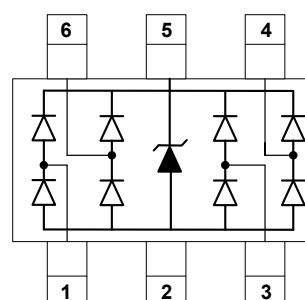
Applications

- Monitors and flat panel displays
- Set-top box and Digital TV
- Video graphics cards
- Digital Video Interface (DVI)
- Notebook Computers
- PCI Express and Serial SATA Ports

Mechanical Data

- SOT-23-6L package
- Molding compound flammability rating: UL94V-0
- Packaging: Tape and Reel(7 inch)

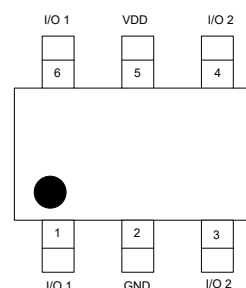
Schematic



Agency Approvals

Icon	Description
RoHS	Compliance with (EU)2015/863
HF	Compliance with IEC61249-2-21:2003
	Mean lead free

PIN Configuration



Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20μs,I/O-GND)	Ppk	60	W
Peak Pulse Power (8/20μs,V _{DD} -GND)	Ppk	300	W
Peak Pulse Current (8/20μs,I/O-GND)	I _{PP}	4.5	A
Peak Pulse Current (8/20μs,V _{DD} -GND)	I _{PP}	17	A
ESD per IEC 61000-4-2 (Air)	V _{ESD} ,V _{DD}	±20	kV
ESD per IEC 61000-4-2 (Contact)	V _{ESD} ,I/O	±15	kV
Operating Temperature Range	T _J	-55 to +125	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C
Lead Soldering Temperature	T _L	260(10seconds)	°C

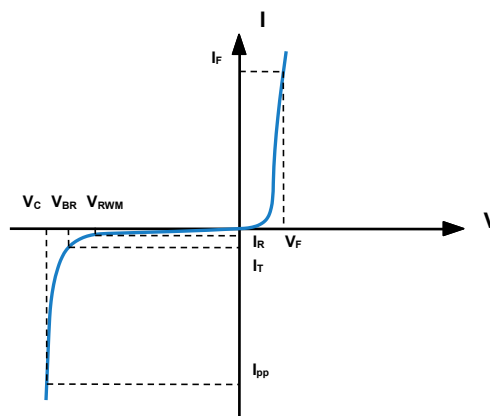
Electrical Characteristics (TA=25°C unless otherwise specified)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Stand-Off Voltage	V _{RWM}	Pin 5 to GND,I/O-GND			5	V
Breakdown Voltage	V _{BR}	I _T = 1mA,Pin 5 to GND,I/O-GND	6	7.5	8.5	V
Reverse Leakage Current	I _R	V _{RWM} =5V			0.5	nA
Forward Breakdown Voltage	V _F	I _F = 15mA,GND to Pin 5/IO		0.8	1.0	V
Clamping Voltage	V _C	I _{PP} = 4.5A, tp=8/20μs, I/O to GND		14	15	V
Clamping Voltage	V _C	I _{PP} = 17A, tp=8/20μs,Pin 5 to GND		16	18	V
Junction Capacitance	C _J	V _{Pin5} = 5V, I/O=0V,f = 1MHz, IO to GND		0.6	0.7	pF
Junction Capacitance	C _J	V _{Pin5} = 5V, I/O=0V,f = 1MHz, IO to IO		0.3	0.4	pF

I-V Curve Characteristics

Symbol	Parameter
I _{PP}	Maximum Reverse Peak Pulse Current
V _C	Clamping Voltage @ I _{PP}
V _{RWM}	Reverse Stand-Off Voltage
I _R	Maximum Reverse Leakage Current @ V _{RWM}
V _{BR}	Breakdown Voltage @ I _T
I _T	Test Current
I _F	Forward Current
V _F	Forward Voltage @ I _F

Note: 8/20μs pulse waveform.



Characteristics Cureves(TA=25°C unless otherwise Specified)

Fig 1. 8/20μs Pulse Waveform

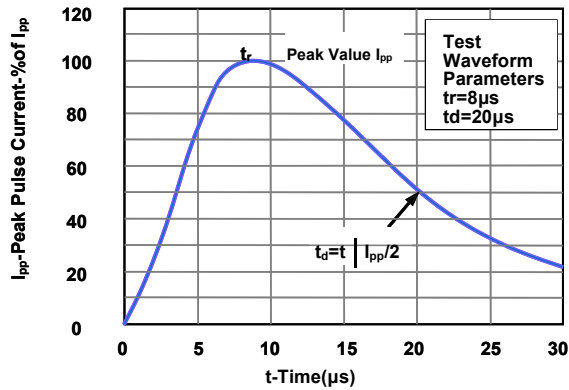


Fig2.ESD Pulse Waveform (according to IEC61000-4-2)

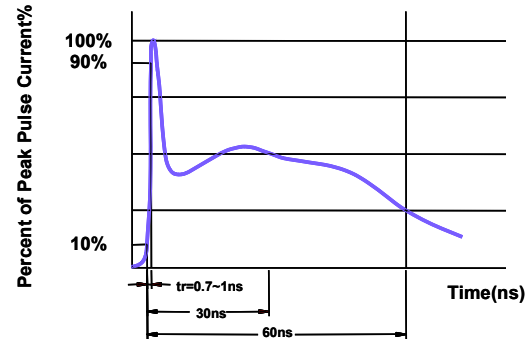


Fig 3. Power Derating Curve

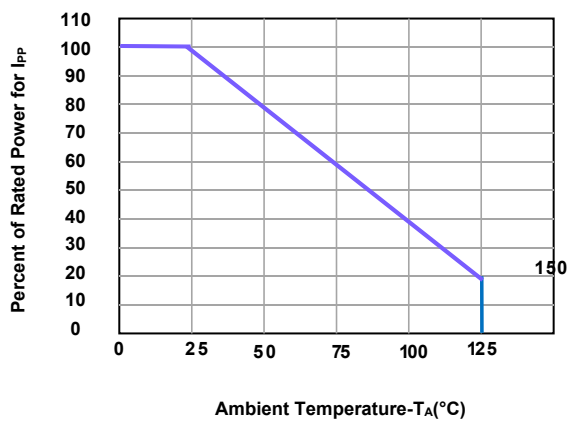


Figure 4.Clamping Voltage vs.Ipp

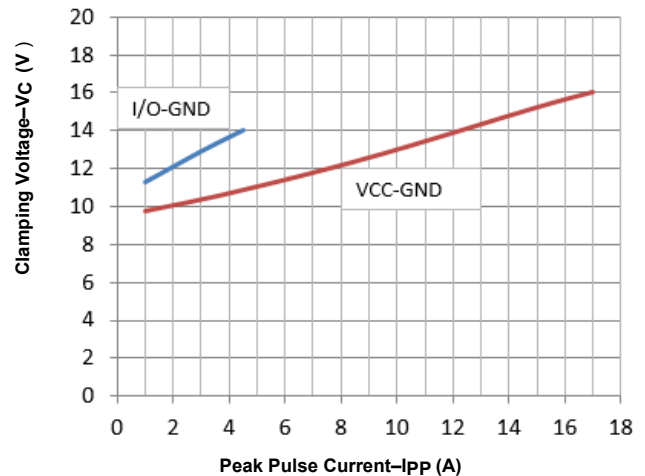


Figure 5. Junction Capacitance vs. Reverse Voltage

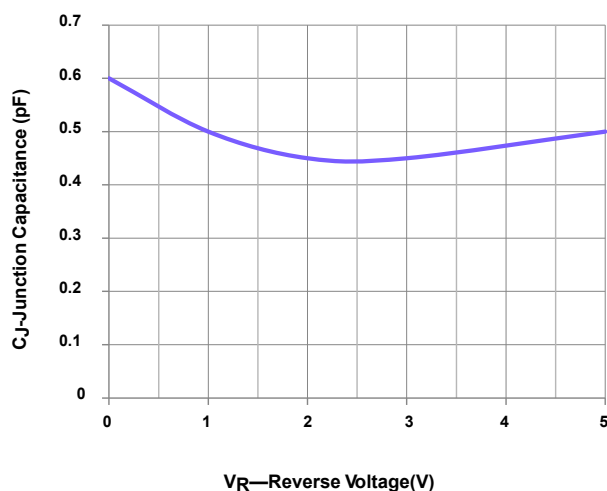
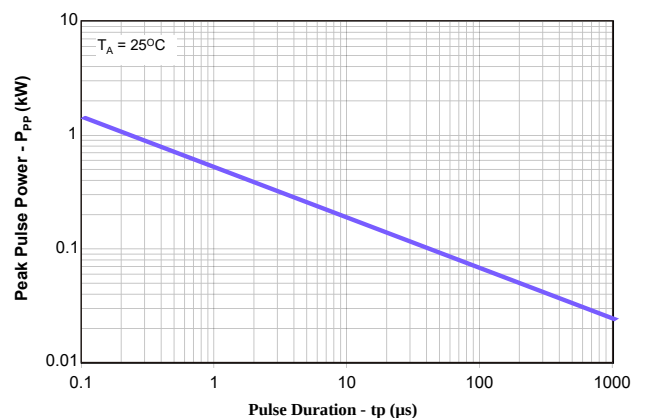
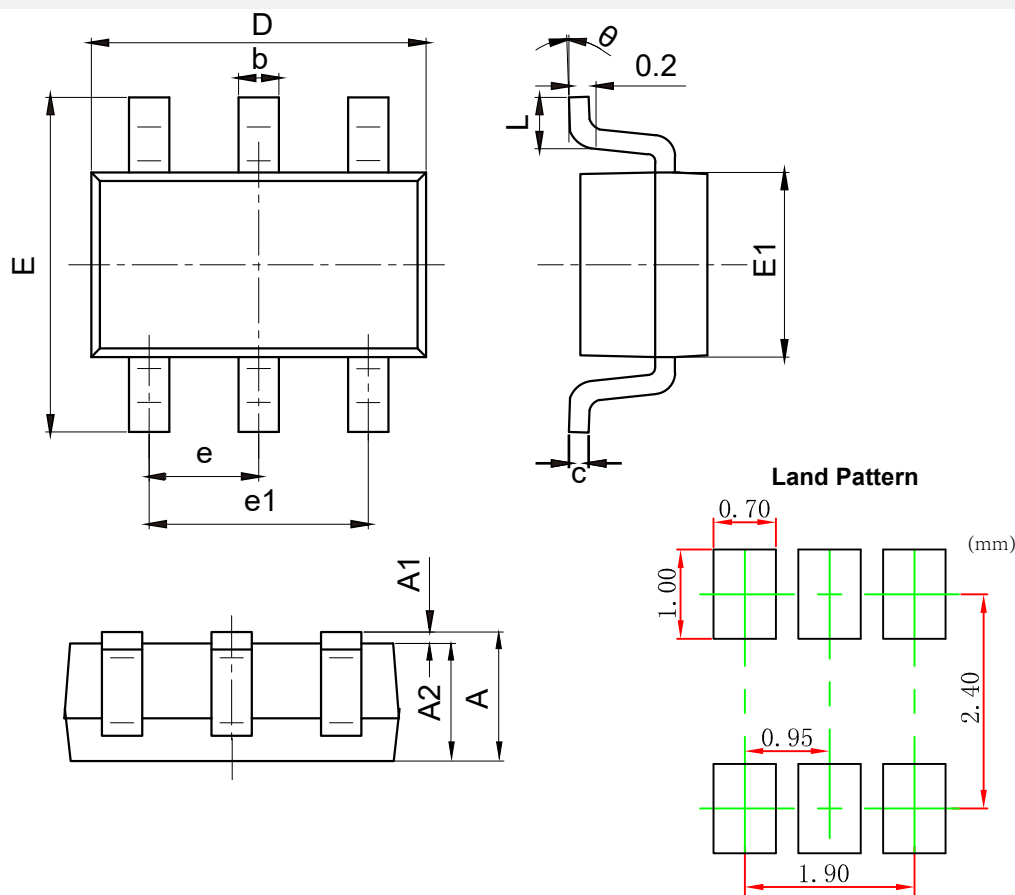


Fig 6. Peak Pulse Power vs.Pulse Time



SOT23-6(SOT-26)Package Outline

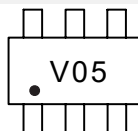


Symbol	Millimeters	
	Min	Max
A	1.050	1.250
A1	0.000	0.100
A2	1.050	1.150
b	0.300	0.500
c	0.100	0.200
D	2.820	3.020
E1	1.500	1.700
E	2.650	2.950
e	0.950(BSC)	
e1	1.800	2.000
L	0.300	0.600
θ	0°	8°

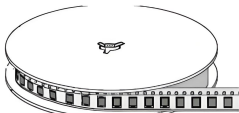
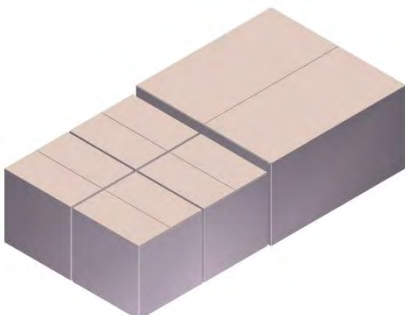
Note: 1,General tolerance:±0.05mm

2,The pad layout is for reference purposes only

Marking Information



Packaging Information

	Reel	Inner Box	Carton
Size	φ178mm(7 inch)	215×205×205mm	435×435×230mm
Quantity	MPQ/MOQ: 1 reel=3000pcs	1 Inner box=10 reels=30,000pcs	1Carton=4 Inner boxes=120,000pcs
Photos			

Notice: 1、 Each reel is placed in an aluminum foil bag and vacuum-packed separately.

2、 Above packaging photos make from 3D software for reference only, please refer to actual product as the standard.