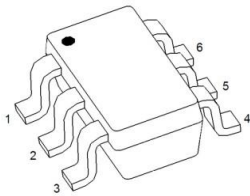
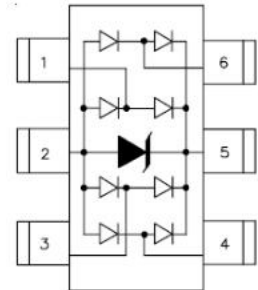
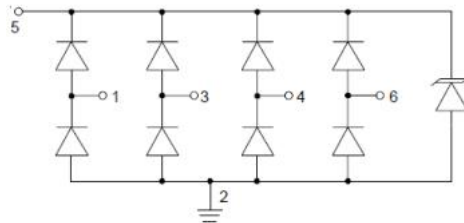


Transient Voltage Suppressor Array



SOT-363

MARKING: F54 or 5T



Features

- 150W (8/20μs) Peak Pulse Power
- Low Capacitance ESD Protection
- SOT-363 Package
- RoHS Compliant
- Matte Tin Lead finish (Pb-Free)
- Protect Four High Speed Data Lines and Vcc
- Meet IEC61000-4-2 Level 4:
 - Contact Discharge > 8kV
 - Air Discharge > 15kV

Applications

- USB 2.0
- USB OTG
- SIM Ports
- Gigabit Ethernet
- Notebook Computers
- Video Line Protection
- Digital Video Interface (DVI)
- IEEE 1394 Firewires Ports
- Monitors and Flat Panel Displays

Absolute Maximum Ratings (TA=25°C unless otherwise specified)

Symbol	Parameter	Value	Unit
PPK	Peak Pulse Power	150	W
IPP	Peak Pulse Current	5	A
VESD (Contact)	Contact ESD Voltage per IEC61000-4-2	20	kV
VESD (Air)	Air ESD Voltage per IEC61000-4-2	20	kV
TJ	Junction Temperature	-55 to +125	°C
TSTG	Storage Temperature	-55 to +150	°C

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

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
VRWM	Reverse Working Peak Voltage				5	V
VBR	Reverse Breakdown Voltage	IT = 1mA	6			V
IR	Reverse Leakage Current	VRWM = 5V			3	μA
VC	Clamping Voltage	IPP = 1A (8/20μs)			15	V
VC	Clamping Voltage	IPP = 5A (8/20μs)			30	V
CJ	Capacitance	VR = 0V, f = 1MHz Between I/O pins			1.5	pF
CJ	Capacitance	VR = 0V, f = 1MHz Any I/O to ground			3.0	pF

Typical Characteristics

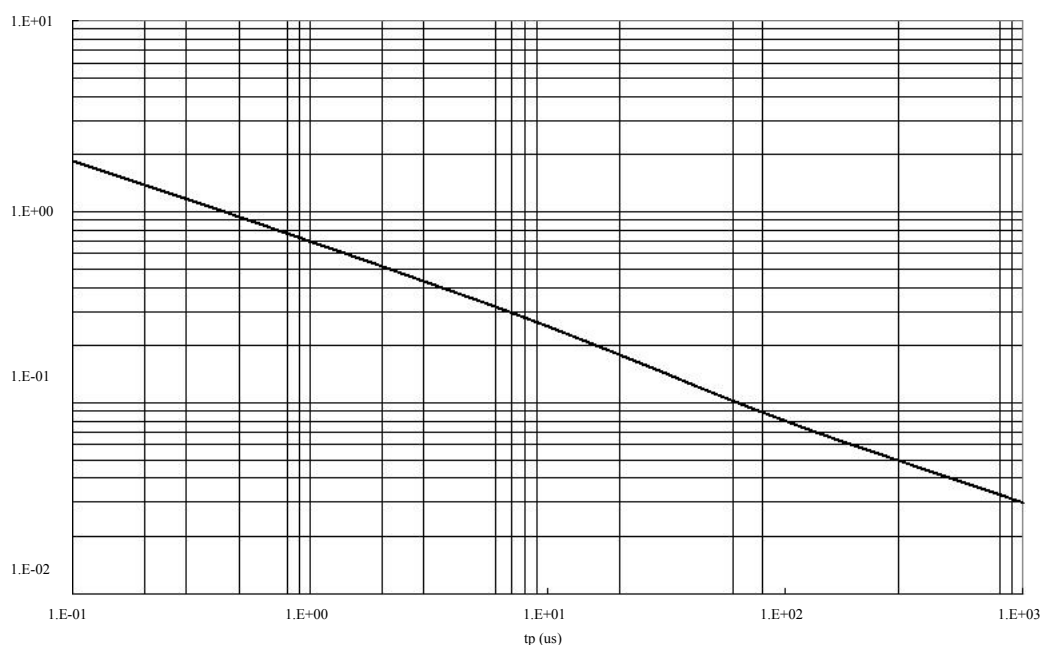


Figure 1. Peak Pulse Power Derating

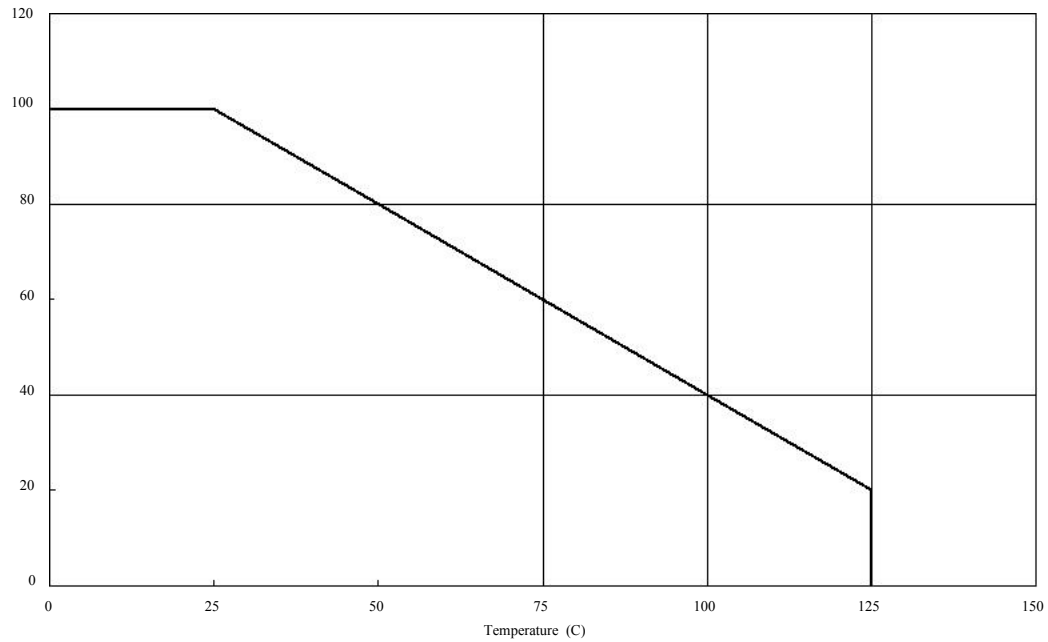


Figure 2. Peak Pulse Power Derating vs Temperature

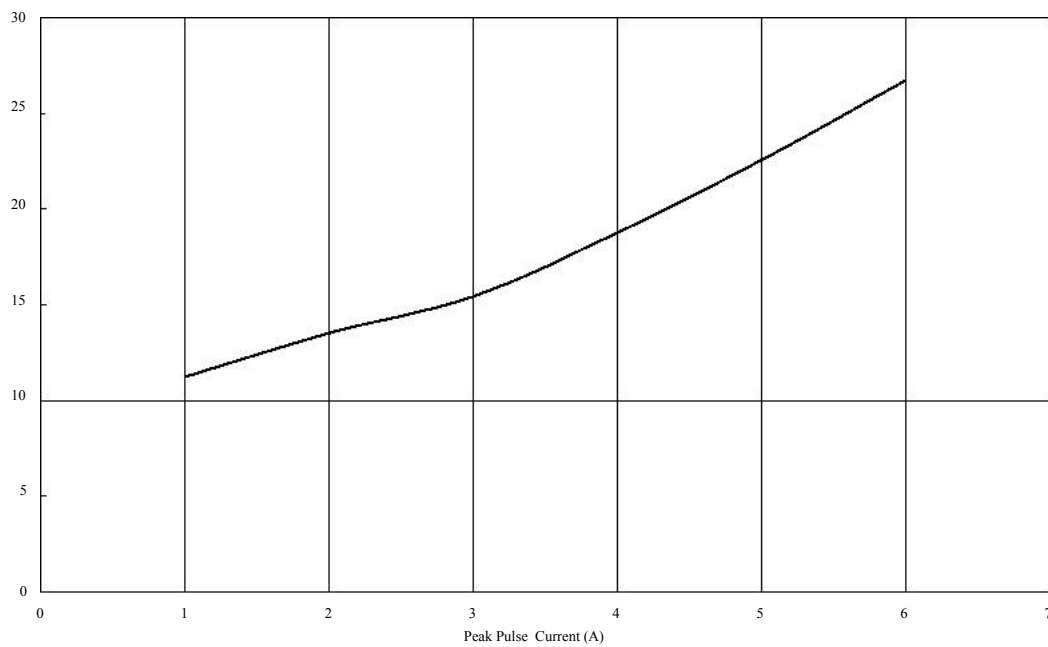
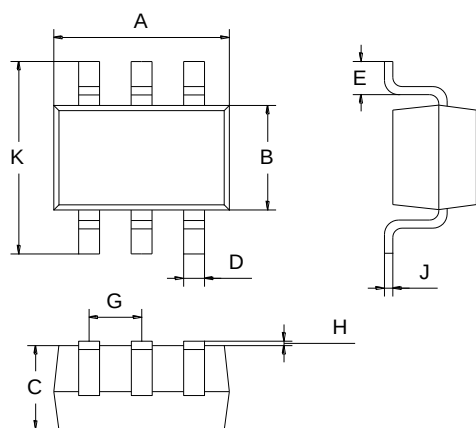


Figure 3. Peak Pulse Current vs Clamping Voltage

Plastic surface mounted package

SOT-363



SOT-363		
Dimension	Min.	Max.
A	2.00	2.20
B	1.15	1.35
C	0.85	1.05
D	0.15	0.35
E	0.25	0.40
G	0.60	0.70
H	0.02	0.10
J	0.05	0.15
K	2.20	2.40

SOLDERING FOOTPRINT

