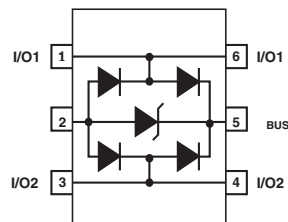


Very low capacitance ESD protection



## Features

- ◇ 150W (8/20 $\mu$ s) Peak Pulse Power
- ◇ Ultra Low Capacitance ESD Protection
- ◇ Flow Through SOT-563 Package
- ◇ RoHS Compliant
- ◇ Matte Tin Lead Finish (Pb-Free)
- ◇ Protect Two High Speed Data Lines
- ◇ Meet IEC61000-4-2 Level 4:

Contact Discharge > 15kV

Air Discharge > 20kV

## Applications

- ◇ USB 2.0 High Speed Ports
- ◇ Video Graphics Cards
- ◇ Digital Visual Interface (DVI)
- ◇ 10/100/1000 Ethernet Ports
- ◇ Monitors and Flat Panel Displays
- ◇ IEEE 1394 Firewire Ports High Speed
- ◇ High Definition Multi-Media Interface (HDMI)

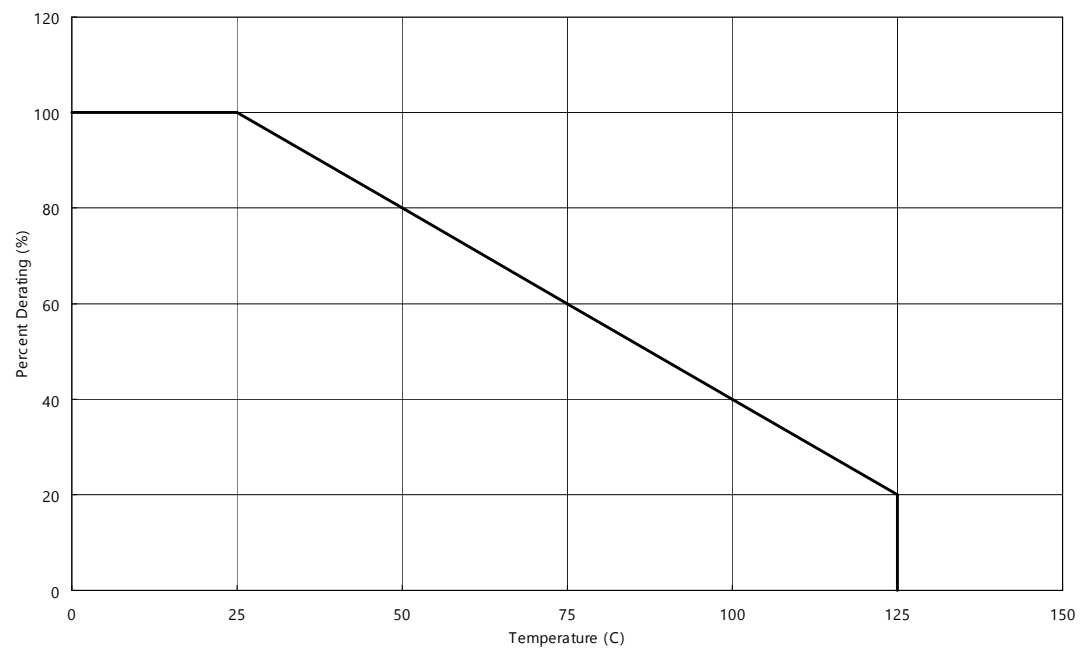
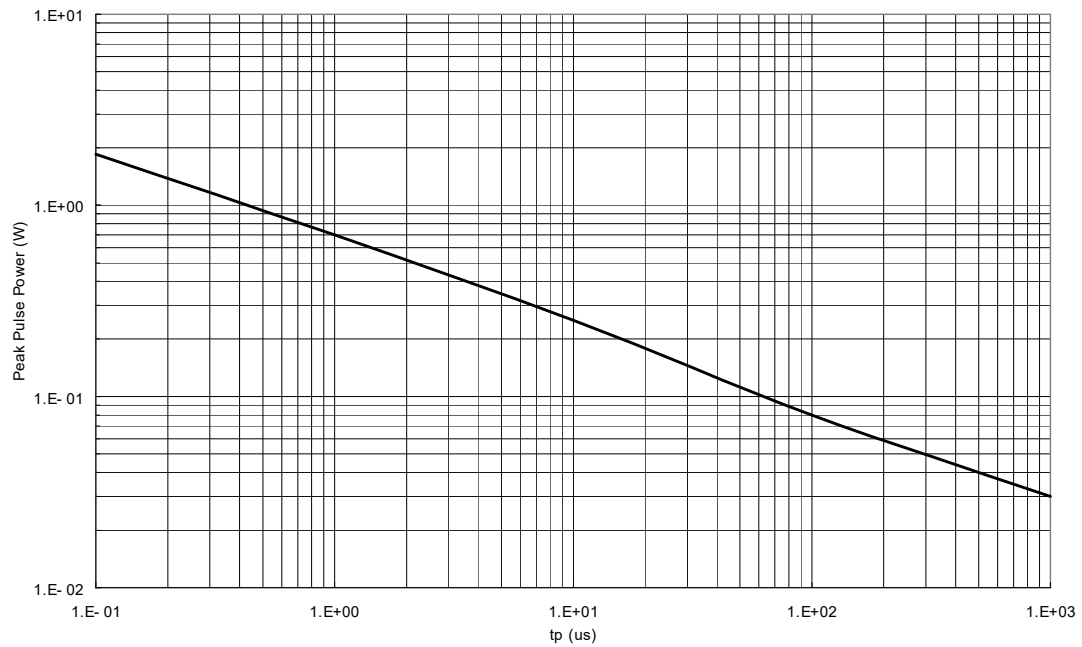
Absolute Maximum Ratings (TA=25°C unless otherwise specified)

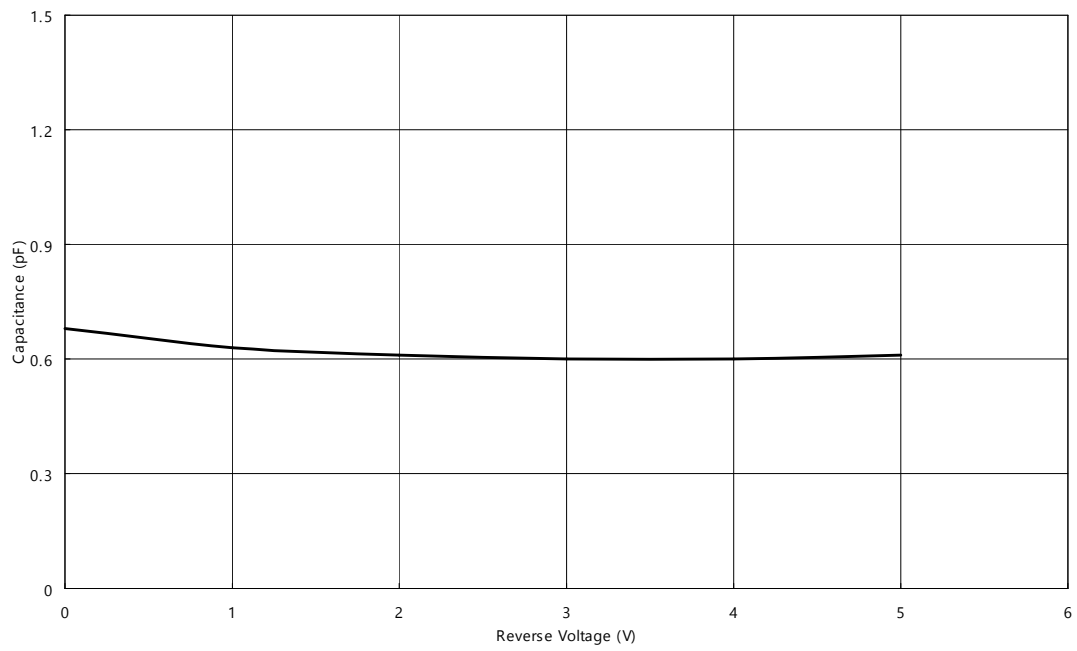
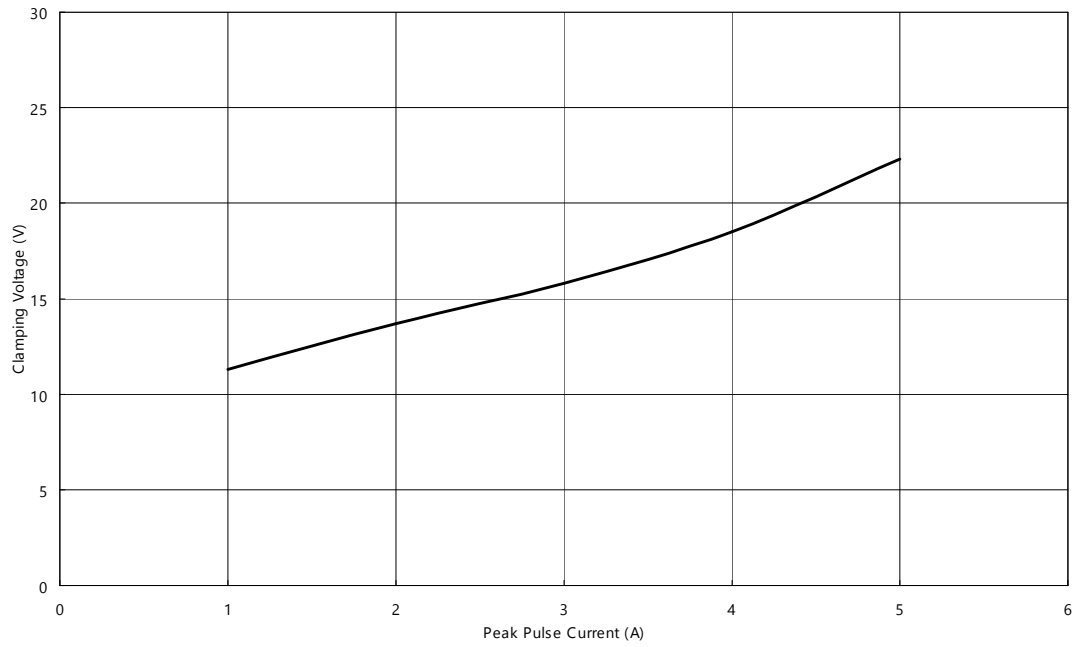
| Symbol         | Parameter                            | Value       | Unit |
|----------------|--------------------------------------|-------------|------|
| PPK            | Peak Pulse Power                     | 150         | W    |
| IPP            | Peak Pulse Current                   | 5           | A    |
| VESD (Contact) | Contact ESD Voltage per IEC61000-4-2 | 15          | 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                                  |     |     | 1   | μA   |
| VC     | Clamping Voltage             | IPP = 1A (8/20μs)                          |     |     | 13  | V    |
| CJ     | Capacitance                  | VR = 0V, f = 1MHz<br>Between I/O pins      |     |     | 0.8 | pF   |
| CJ     | Capacitance                  | VR = 0V, f = 1MHz Any<br>I/O pin to ground |     |     | 1.5 | pF   |

## Typical Characteristics





SOT-666 PACKAGE OUTLINE DIMENSIONS

