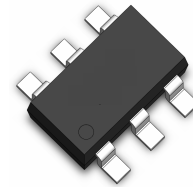


**Features**

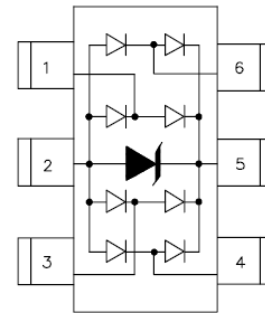
- Small SOT-23 Package
- Low Leakage
- Fast Response Time < 5 ns
- Protects One Power or I/O Port
- ESD Rating of Class 3 (>16KV) per Human Body Model
- ESD Protection to IEC 61000-4-2 Level 4
- ESD Protection to IEC 61000-4-2 Level 4
- RoHS Compliant in Lead-Free Versions

**SOT23-6L**



**APPLICATIONS**

- 10/100/1000 Ethernet
- Monitors and Flat Panel Displays
- Digital Video Interface (DVI)
- Video Graphics Cards
- Notebook Computers
- SIM Ports
- ATM Interfaces
- USB 2.0 Power and Data Line Protection



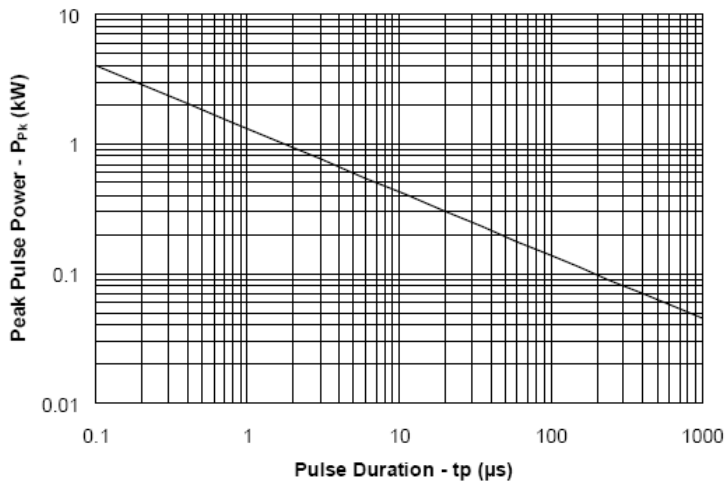
**Mechanical Characteristics**

Symbol	Parameter	Value	Units
P <sub>PP</sub>	Peak Pulse Power (tp=8/20 s waveform)	350	W
T <sub>L</sub>	Lead Soldering Temperature	260 (10sec)	°C
T <sub>STG</sub>	Storage Temperature Range	-55 to +150	°C
T <sub>J</sub>	Operating Temperature Range	-55 to +150	°C
	IEC61000-4-2 (ESD) Air Discharge	±15	KV
	Contact Discharge	±8	
	IEC61000-4-4 (EFT)	40	A
	IEC61000-4-5 ( Lightning )	5	A

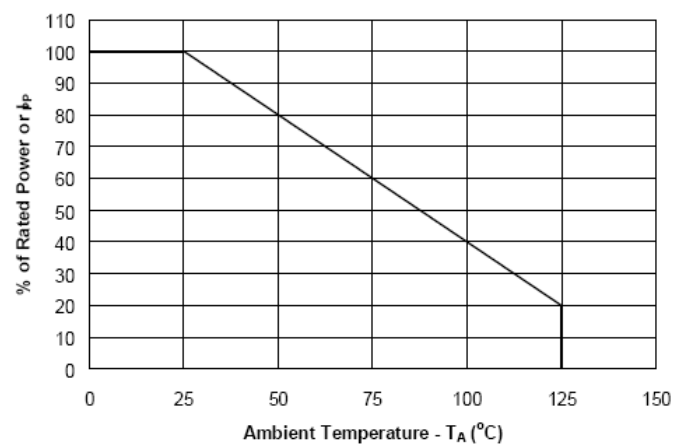
## Electrical Characteristics( $T_{amb}=25^{\circ}\text{C}$ )

Parameter	Symbol	Conditions	Minimum	Typical	Maximum	Units
Reverse Stand-Off Voltage	$V_{RWM}$	Pin 5 to 2			5	V
Reverse Breakdown Voltage	$V_{BR}$	$I_t = 1\text{mA}$ Pin 5 to 2	6			V
Reverse Leakage Current	$I_R$	$V_{RWM} = 5\text{V}$ , $T=25^{\circ}\text{C}$ Pin 5 to 2			5	$\mu\text{A}$
Forward Voltage	$V_F$	$I_f = 15\text{mA}$			1.2	V
Clamping Voltage	$V_C$	$I_{PP} = 1\text{A}$ , $t_p = 8/20\mu\text{s}$ Any I/O pin to Ground			12.5	V
Clamping Voltage	$V_C$	$I_{PP} = 5\text{A}$ , $t_p = 8/20\mu\text{s}$ Any I/O pin to Ground			17.5	V
Junction Capacitance	$C_j$	$V_R = 0\text{V}$ , $f = 1\text{MHz}$ Any I/O pin to Ground		3	5	pF
		$V_R = 0\text{V}$ , $f = 1\text{MHz}$ Between I/O pins		1.5		pF

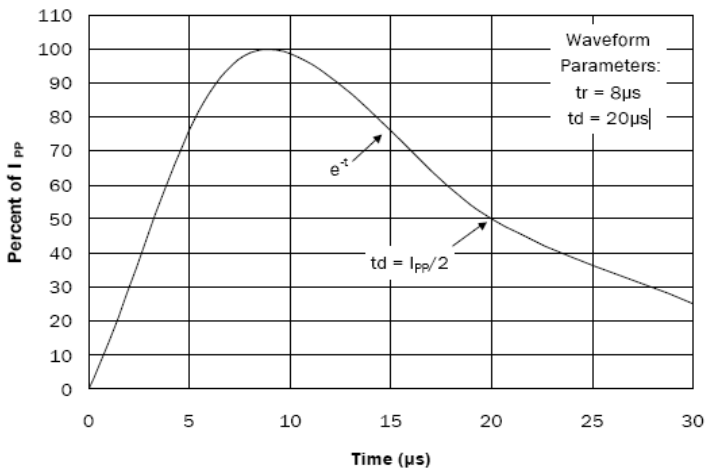
Non-Repetitive Peak Pulse Power vs. Pulse Time



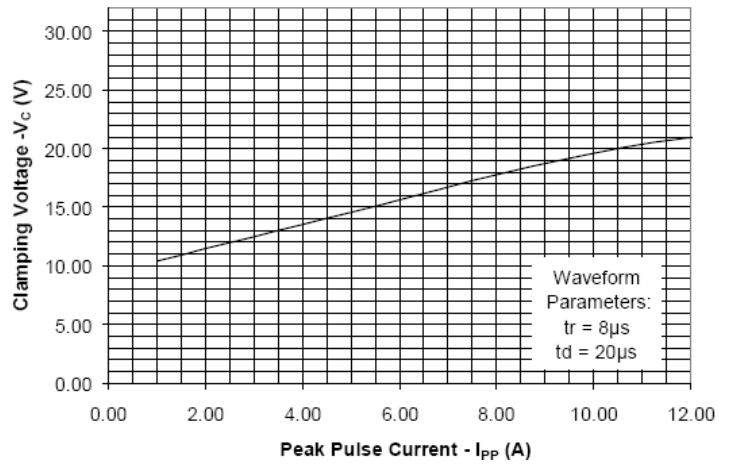
Power Derating Curve



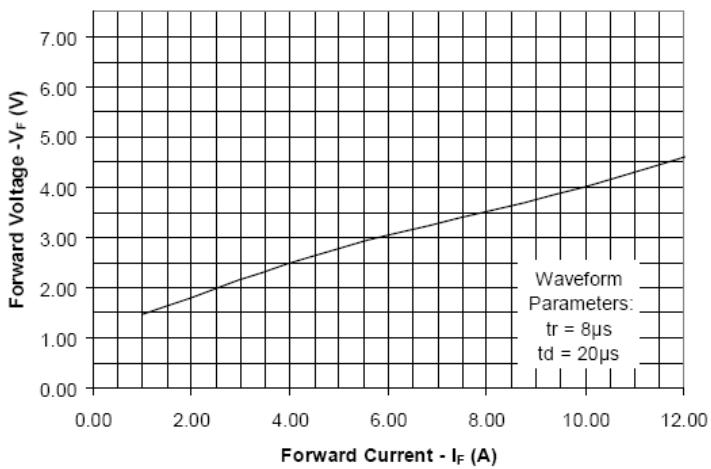
### Pulse Waveform



### Clamping Voltage vs. Peak Pulse Current



### Forward Voltage vs. Forward Current



### Capacitance vs. Reverse Voltage

