

Features

- 200W peak pulse power (8/20μs)
- Ultra low leakage: nA level
- Operating voltage: 7V or 12V
- Low clamping voltage
- Complies with following standards:
 - IEC 61000-4-2 (ESD) immunity test
Air discharge: ±30kV
Contact discharge: ±30kV
 - IEC61000-4-4 (EFT) 40A (5/50ns)
 - IEC61000-4-5 (Lightning) 8A (8/20μs)
- RoHS Compliant

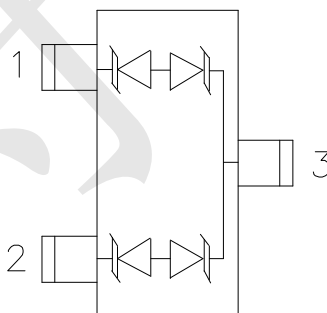
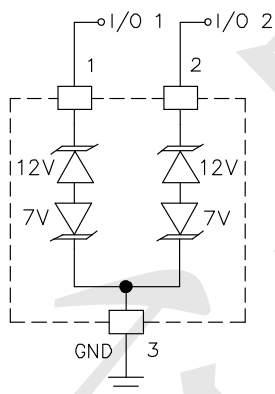
Mechanical Characteristics

- Package: SOT-23
- Lead Finish: Matte Tin
- Case Material: "Green" Molding Compound.
- UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 3 per J-STD-020
- Terminal Connections: See Diagram Below
- Shipping Qty :3000pcs/7Inch Tape & Reel

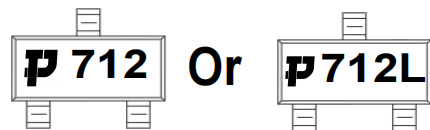
Applications

- Wireless System
- Networks
- Portable Instrumentation
- RS485 Ports

Dimensions and Pin Configuration



Marking:



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

Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20μs)	Ppk	200	W
Peak Pulse Current (8/20μs)	Ipp	8	A
ESD per IEC 61000-4-2 (Air)	VESD	±30	kV
ESD per IEC 61000-4-2 (Contact)		±30	
Operating Temperature Range	TJ	-55 to +125	°C
Storage Temperature Range	Tstg	-55 to +150	°C

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

		Pin 1 to 3 and 2 to 3 (12V TVS)			Pin 3 to 1 and 3 to 2 (7V TVS)				
Parameter	Symbol	Min	Typ	Max	Min	Typ	Max	Unit	Test Condition
Reverse Working Voltage	VRWM			12			7	V	
Breakdown Voltage	VBR	13.3			7.5			V	IT = 1mA
Reverse Leakage Current	IR			0.1			1	uA	VR = VRWM
Clamping Voltage	VC			20			13	V	Ipp = 1A(8 x20us pulse)
Clamping Voltage	VC		22	26		16	20	V	Ipp = 8A(8 x20us pulse)
Junction Capacitance	CJ			75			75	pF	VR = 0V, f = 1MHz

Typical Performance Characteristics ($T_A=25^\circ\text{C}$ unless otherwise Specified)

Fig1. 8/20 μs Pulse Waveform

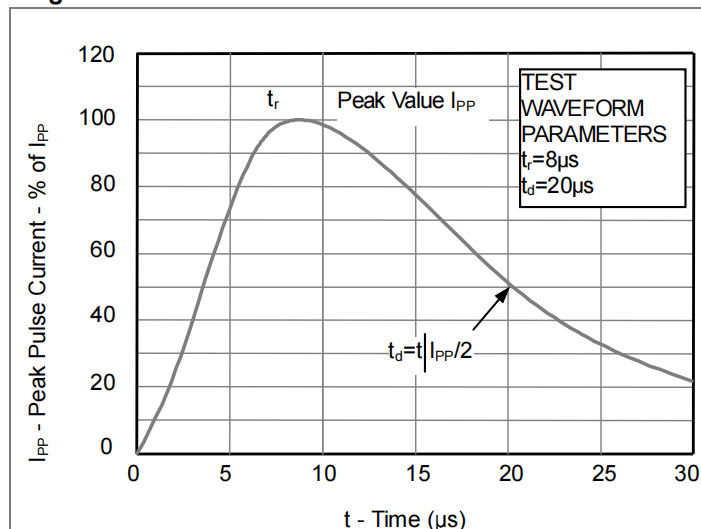


Fig2. ESD Pulse Waveform (according to IEC 61000-4-2)

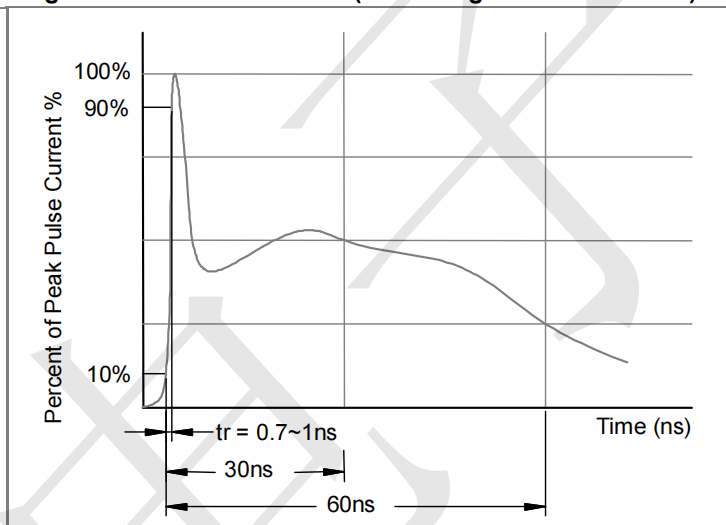
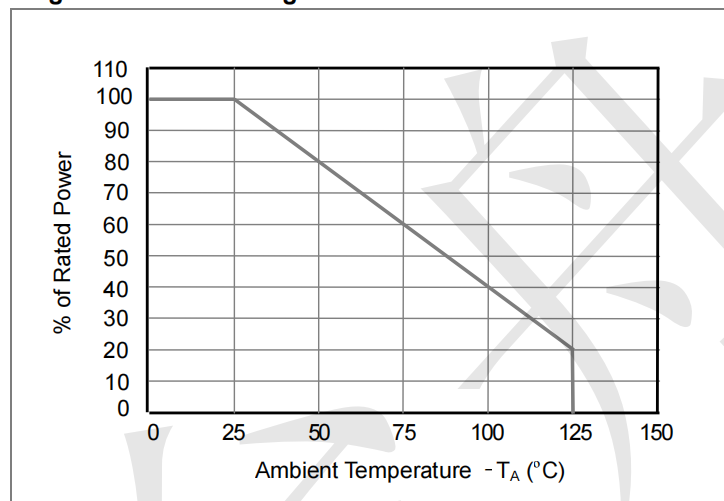
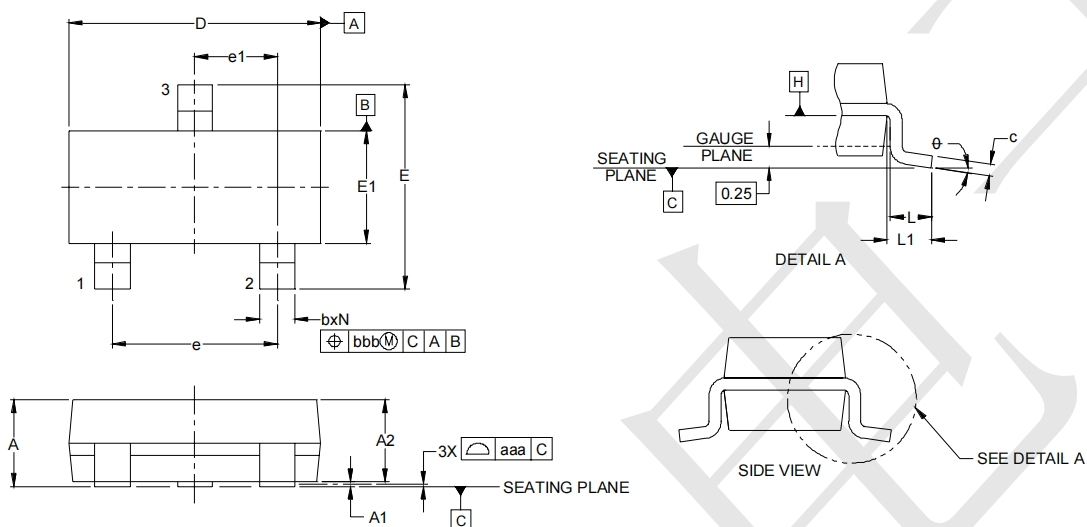


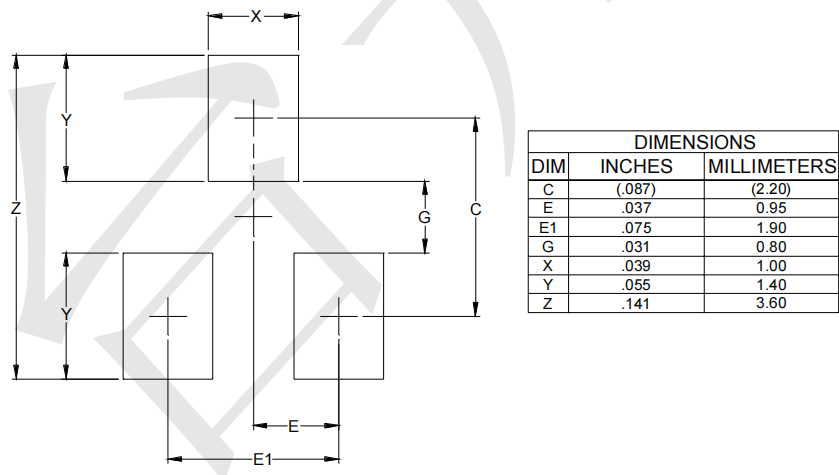
Fig3. Power Derating Curve



Outline Drawing - SOT23



Land Pattern - SOT23



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [ESD Suppressors / TVS Diodes](#) ***category:***

Click to view products by [TECH PUBLIC](#) ***manufacturer:***

Other Similar products are found below :

[60KS200C](#) [D5V0F4U5P5-7](#) [NTE4902](#) [P4KE27CA](#) [P6KE11CA](#) [JAN1N6461](#) [P6KE8.2A](#) [SA60CA](#) [SA64CA](#) [SMBJ12CATR](#) [SMBJ33CATR](#)
[SMBJ8.0A](#) [ESD101-B1-02ELS E6327](#) [ESD112-B1-02EL E6327](#) [ESD7451N2T5G](#) [19180-510](#) [CPDT-5V0USP-HF](#) [3.0SMCJ33CA-F](#)
[3.0SMCJ36A-F](#) [HSPC16701B02TP](#) [JAN1N6472](#) [JANTX1N6052A](#) [JANTX1N6462](#) [D3V3Q1B2DLP3-7](#) [DRTR5V0U4SL-7](#) [SCM1293A-](#)
[04SO](#) [ESD200-B1-CSP0201 E6327](#) [ESD101-B1-02EL E6327](#) [AOZ8808DI-03](#) [5KP48A](#) [5KP90A](#) [15KPA36A-LF](#) [P4KE56CA](#) [P4KE68A](#)
[P6KE120A](#) [P6KE13CA](#) [P6KE43CA](#) [P6KE6.8CA](#) [P6KE8.2](#) [P6SMBJ20CA](#) [JANTX1N6072A](#) [SR2835ESKG](#) [SA90CA](#) [SA8.5A](#) [SA5.0CA](#)
[SA18A](#) [SA130A](#) [SA11CA](#) [SMLJ40CA-TP](#) [SMF22A-TP](#)