Features

- Uni-Directional ESD Protection of Four Lines
- Low Leakage Current
- Low Capacitance
- Low Reverse Clamping Voltage
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. “Green” Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

ESD Protection Device

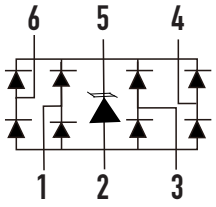
Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C

IEC61000-4-2(ESD)	Air Contact	±25KV ±25KV
JESD22-A114-B(ESD)	Human Body Machine	16KV 0.4KV
Peak Pulse Current(8/20μs)	I_{PP}	5A
Peak Pulse Power (8/20us)	P_{PK}	125W

Note: 1. Halogen free "Green” products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure



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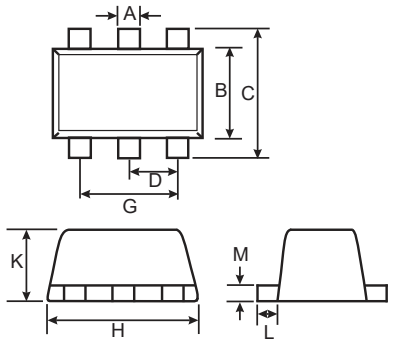


DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.006	0.011	0.15	0.30	
B	0.043	0.051	1.10	1.30	
C	0.059	0.067	1.50	1.70	
D	0.020		0.50		TYP.
G	0.035	0.043	0.90	1.10	
H	0.059	0.067	1.50	1.70	
K	0.020	0.023	0.52	0.60	
L	0.004	0.011	0.10	0.30	
M	0.004	0.007	0.10	0.18	

Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Reverse Working Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	I_T = 1mA, I/O to GND	6		8.8	V
Reverse Breakdown Voltage	V_{BR}	I_T = 1mA,V_{CC} to GND	5.8		8.1	V
Reverse Leakage Current	I_R	V_{RWM} =5V, I/O to GND & V_{CC} to GND			1	μA
Forward Voltage	V_F	I_F =10mA,I/O to GND & V_{CC} to GND	0.5		1	V
Clamping Voltage	V_C	I_{PP}=1A, t_P=8/20μs, I/O to GND & V_{CC} to GND			15	V
Clamping Voltage	V_C	I_{PP}=5A, t_P=8/20μs, I/O to GND & V_{CC} to GND			25	V
Junction Capacitance	C_J	V_R = 0V, f = 1MHz, I/O to GND			0.8	pF
Junction Capacitance	C_J	V_R = 0V, f = 1MHz, I/O to I/O			0.4	pF

Curve Characteristics

Fig. 1 - 8 X 20μs Pulse Waveform

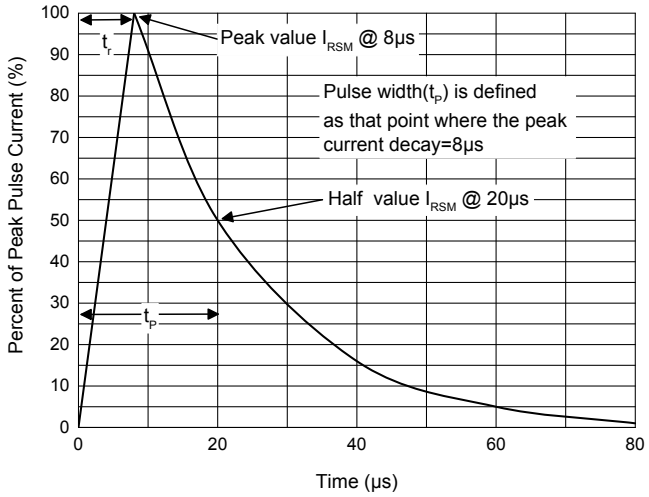


Fig. 2 - Pulse Derating Curve

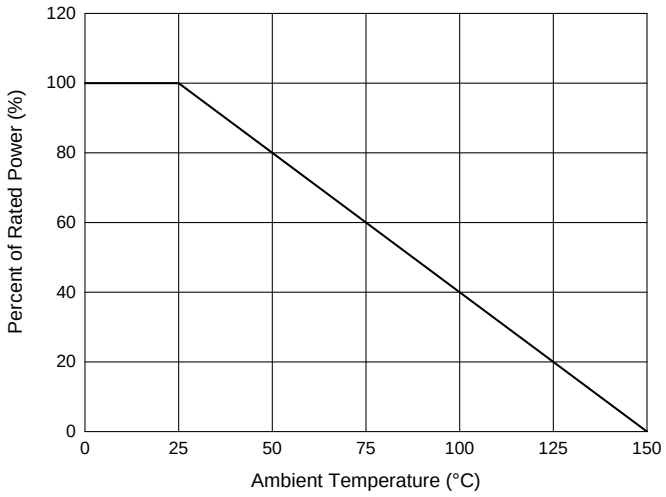


Fig. 3 - Capacitance Characteristics

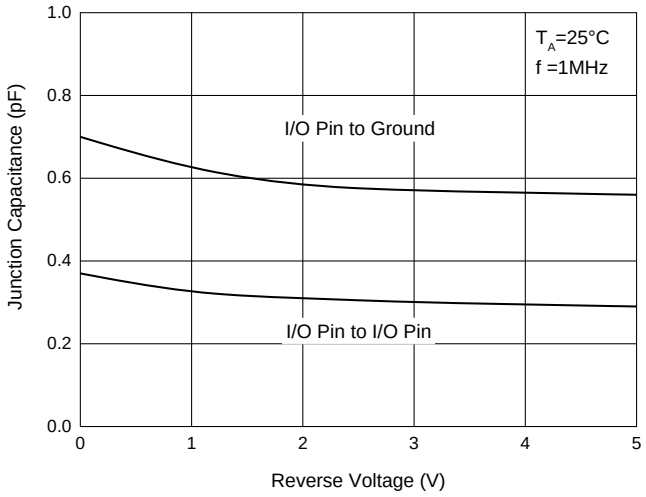
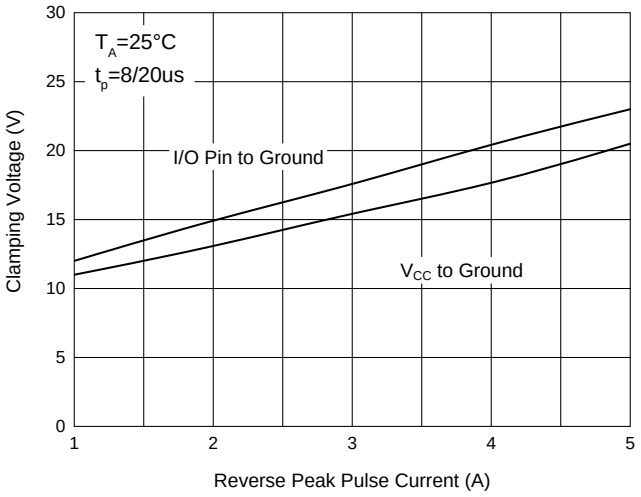


Fig. 4 - Clamping Voltage Characteristics



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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