

### Features

- Protects One Data or Power Line
- Ultra Low Leakage
- Low 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)

### Maximum Ratings

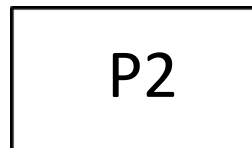
IEC61000-4-2(ESD)	Air	±30KV
	Contact	±30KV
Peak Pulse Power (8/20µs)	PPK	100W
Peak Pulse Current (8/20µs) <sup>(Note 2)</sup>	I <sub>PP</sub>	12A
Operating Junction Temperature Range	T <sub>J</sub>	−40°C to +125°C
Storage Temperature Range	T <sub>STG</sub>	−55°C to +150°C

Note:  
 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.  
 2. Non-repetitive current pulse 8/20 µs exponential decay waveform according to IEC61000-4-5.

### Internal Structure

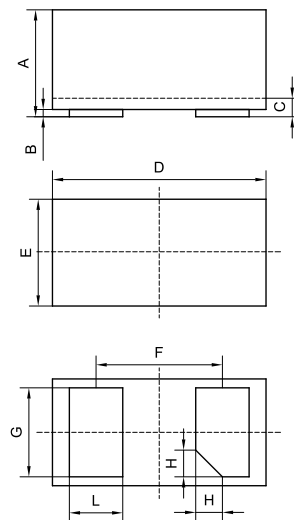


### Marking Code



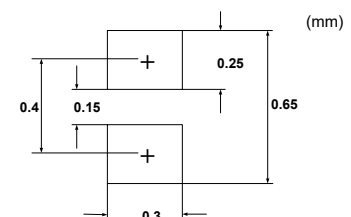
# ESD Protection Device

## 0201-A

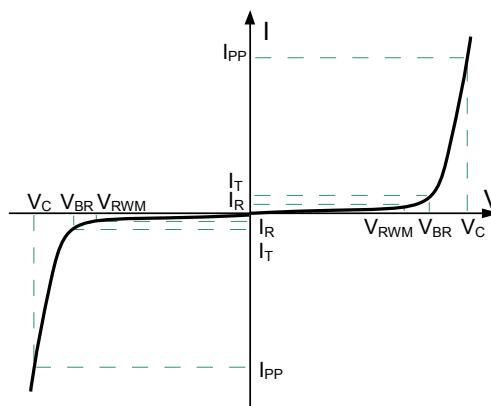


DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.009	0.013	0.23	0.33	
B	0.000	0.002	0.00	0.05	
C	0.004	0.007	0.10	0.18	
D	0.022	0.027	0.55	0.67	
E	0.010	0.015	0.25	0.37	
F	0.014		0.355		TYP.
G	0.008	0.011	0.20	0.28	
H	0.003		0.079		TYP.
L	0.004	0.009	0.10	0.22	

### SUGGESTED SOLDER PAD LAYOUT



Symbol	Parameter
$I_{PP}$	Maximum Reverse Peak Pulse Current
$V_C$	Clamping Voltage @ $I_{PP}$
$V_{RWM}$	Working Peak Reverse Voltage
$I_R$	Maximum Reverse Leakage Current @ $V_{RWM}$
$V_{BR}$	Breakdown Voltage @ $I_T$
$I_T$	Test Current
C	Capacitance @ $V_R=0$ and $f=1\text{MHz}$



**Electrical Characteristics @ 25°C (Unless Otherwise Specified)**

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Reverse Working Voltage	$V_{RWM}$				1.8	V
Reverse Breakdown Voltage	$V_{BR}$	$I_T=1\text{mA}$	2.5			V
Reverse Leakage Current	$I_R$	$V_{RWM}=1.8\text{V}$			0.2	$\mu\text{A}$
Clamping Voltage <sup>Note1</sup>	$V_C$	$I_{PP}=1\text{A}$ , $t_p=8/20\mu\text{s}$			3.5	V
Clamping Voltage <sup>Note1</sup>	$V_C$	$I_{PP}=12\text{A}$ , $t_p=8/20\mu\text{s}$			8.5	V
Junction Capacitance	$C_J$	$V_R=0\text{V}$ , $f=1\text{MHz}$			30	pF

Note:

1. Non-repetitive current pulse 8/20 $\mu\text{s}$  exponential decay waveform according to IEC61000-4-5.

## Curve Characteristics

Fig. 1 - 8 X 20µs Pulse Waveform

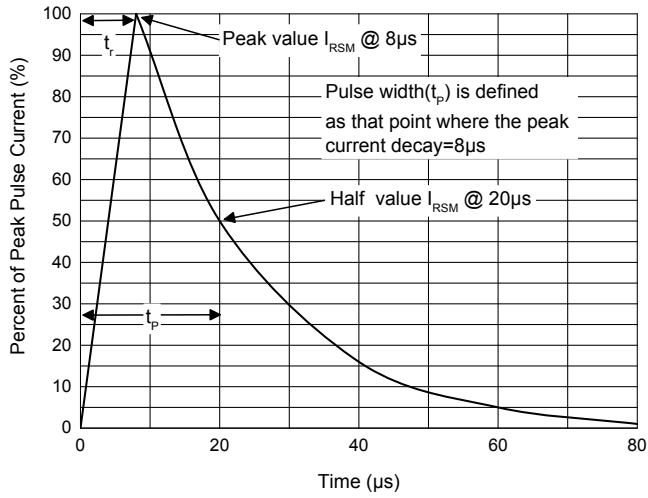


Fig. 2 - Non-Repetitive Peak Pulse Power

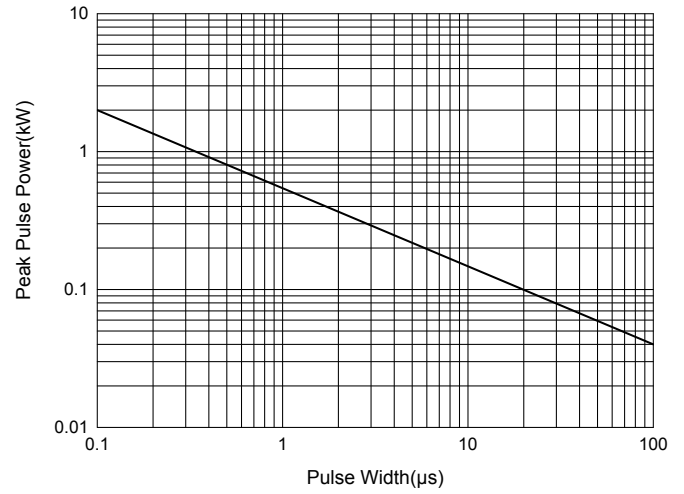


Fig. 3 - Capacitance Characteristics

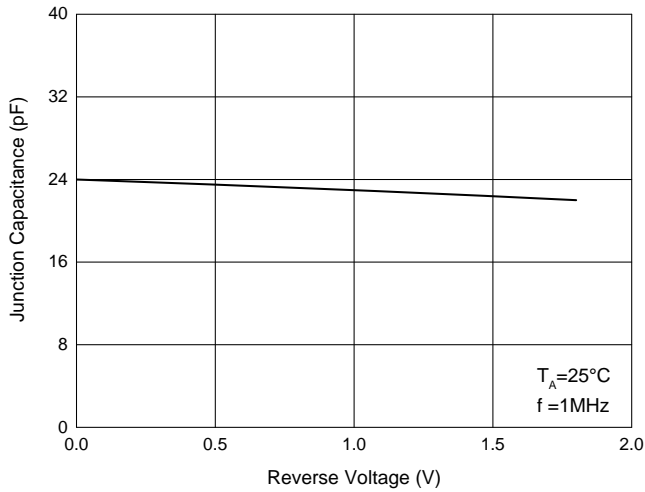


Fig. 4 - Clamping Voltage Characteristics

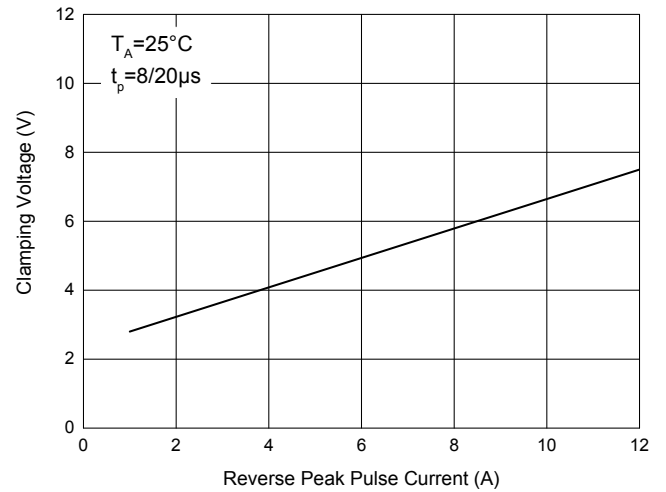
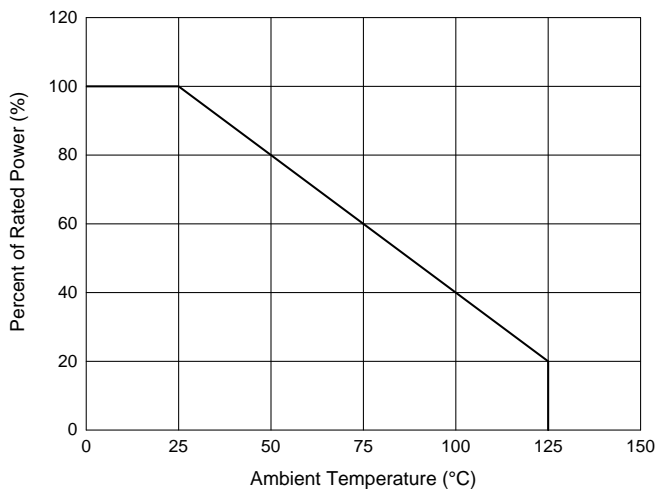


Fig. 5 - Pulse Derating Curve



## Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 10Kpcs/Reel

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