

### Features

- Protects One Data or Power Line
- Chip Scale Package
- 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**

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C

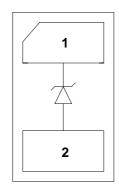
MCC Part Number	Device Marking	
CSP5V0L	5V	

IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV
Peak Pulse Current(8/20µs)	I <sub>PP</sub>	50A
Peak Pulse Power (8/20µs)	Р <sub>РК</sub>	500W

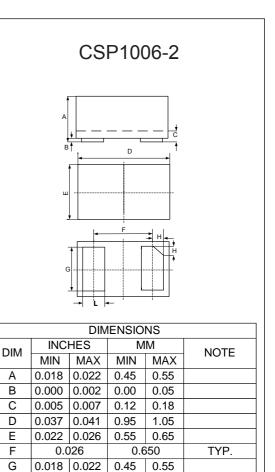
Note:

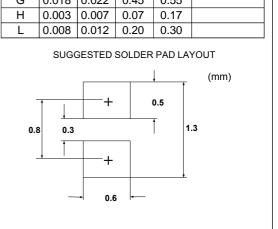
1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

### **Circuit and Pin Schematic**











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

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V <sub>RWM</sub>				5	V
Reverse Breakdown Voltage	V <sub>BR</sub>	I <sub>T</sub> =1mA	5.8	6.5	8	V
Reverse Leakage Current	I <sub>R</sub>	V <sub>RWM</sub> =5V			0.5	μA
Clamping Voltage	V <sub>c</sub>	I <sub>PP</sub> =30A, t <sub>P</sub> =8/20μs			8.5	V
Clamping Voltage	V <sub>c</sub>	I <sub>PP</sub> =50A, t <sub>P</sub> =8/20μs			10.5	V
Junction Capacitance	CJ	V <sub>R</sub> =0V, f=1MHz		110	130	pF



# **Curve Characteristics**

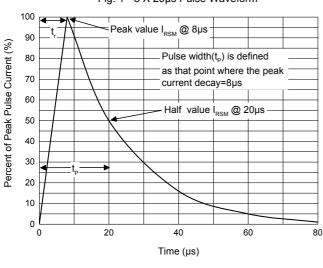
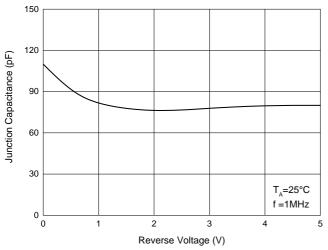


Fig. 1 - 8 X 20µs Pulse Waveform









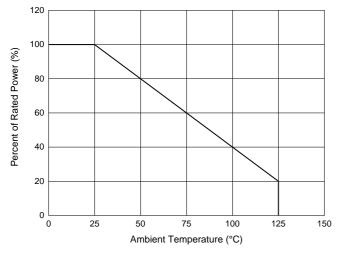


Fig. 2 - Non-Repetitive Peak Pulse Power

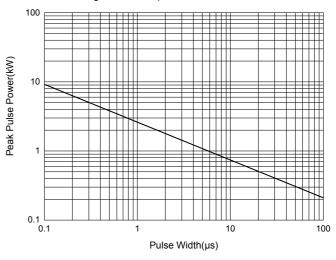
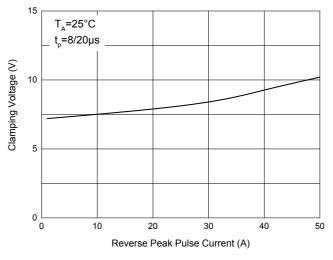


Fig. 4 - Clamping Voltage Characteristics





# **Ordering Information**

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

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