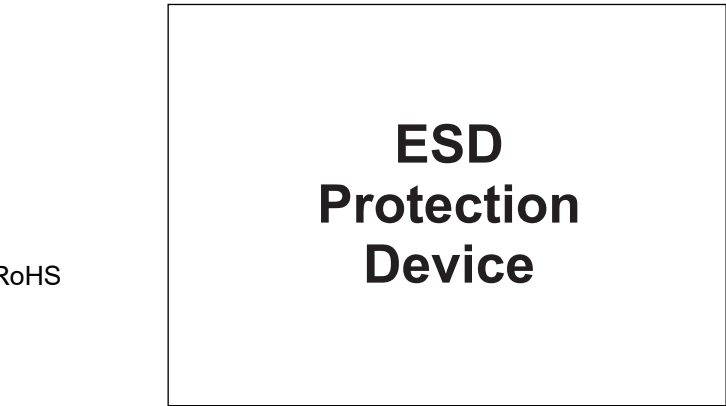


Features

- Low Clamping Voltage
- Ultra Low Capacitance
- 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 +150°C
- Storage Temperature Range: -55°C to +150°C



MCC Part Number	Device Marking
ESDPLC5V0AE2	XX

IEC61000-4-2(ESD)	Air Contact	±20KV ±20KV
IEC61000-4-4 (EFT) @5/50ns		40A
Peak Pulse Current(8/20µs)	I _{PP}	3A
Peak Pulse Power (8/20µs)	P _{PK}	40W

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

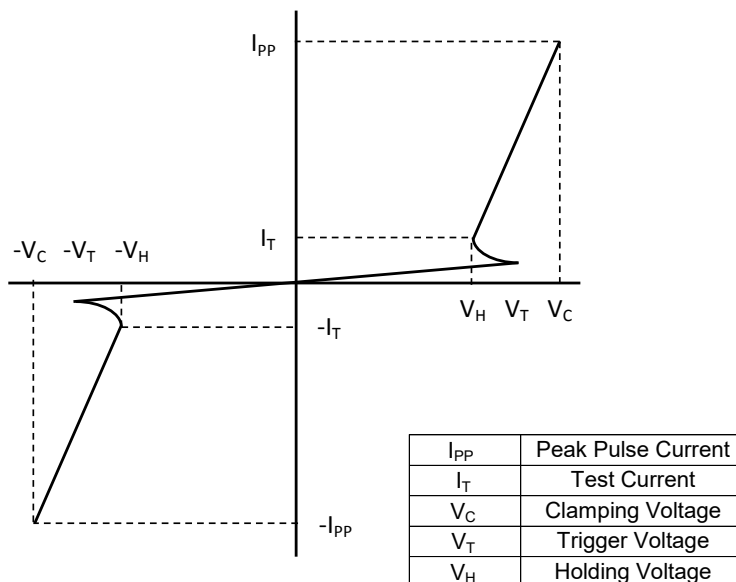


0201-A

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.011	0.013	0.27	0.33	
B	0.000	0.001	0.00	0.025	
C	0.006	0.009	0.14	0.22	
D	0.022	0.026	0.57	0.65	
E	0.011	0.014	0.28	0.35	
F	0.014		0.355		TYP.
G	0.008	0.011	0.21	0.29	

SUGGESTED SOLDER PAD LAYOUT
(mm)

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise noted)



Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Reverse Working Voltage	V_{RWM}				5.5	V
Trigger Voltage	V_{TRIG}	High Voltage than V_{TRIG} Guarantees the Protection Turn-On	6.5			V
Holding Voltage	V_H	$I_H=1\text{mA}$, Lower Voltage than V_{TRIG} Guarantees the Protection Turn-Off	6.1	7	8.8	V
Reverse Leakage Current	I_R	$V_{RWM} = 5.5\text{V}$			50	nA
Clamping Voltage	V_C	$I_{PP}=1\text{A}$, $t_p=8/20\mu\text{s}$			13	V
Clamping Voltage	V_C	$I_{PP}=3\text{A}$, $t_p=8/20\mu\text{s}$			15	V
Junction Capacitance	C_J	$V_R = 0\text{V}$, $f = 1\text{MHz}$		0.15	0.2	pF

Curve Characteristics

Fig. 1 - 8 X 20 μ s Pulse Waveform

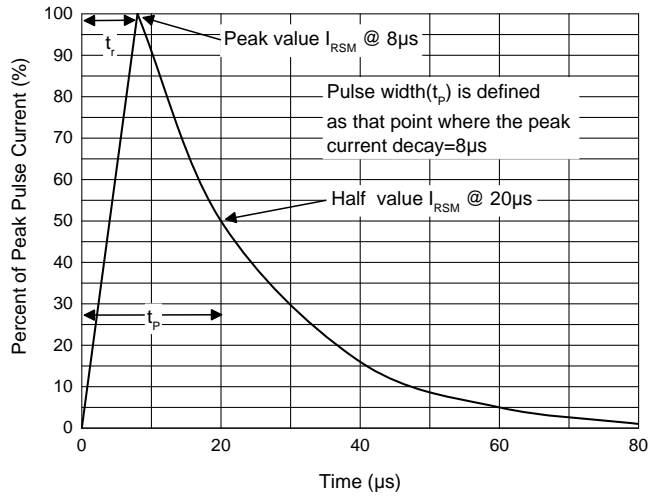


Fig. 2 - Non-Repetitive Peak Pulse Power

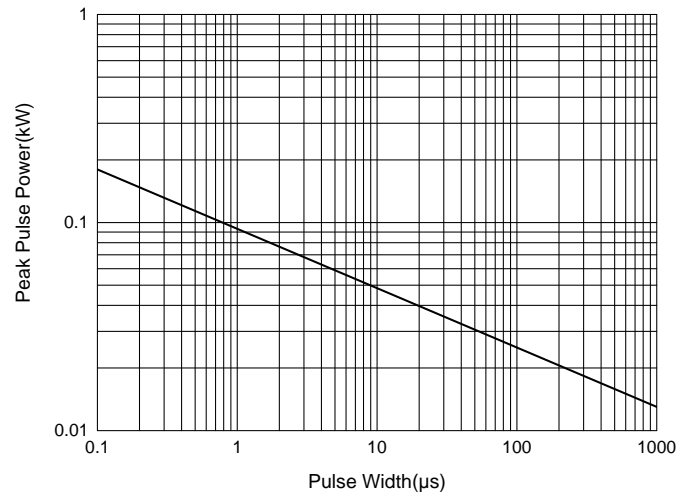


Fig. 3 - Power Derating Curve

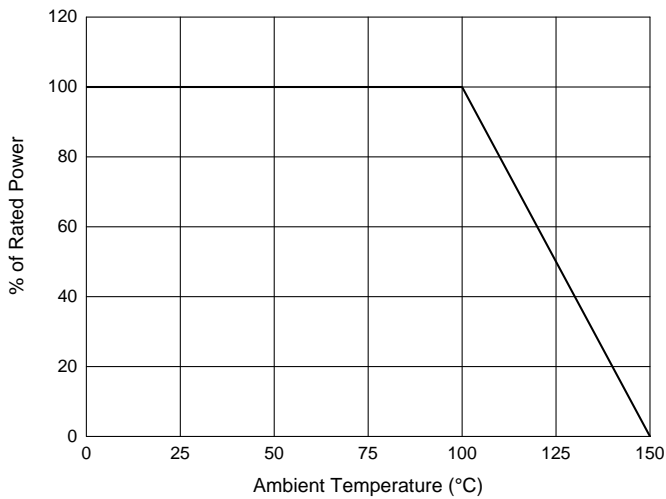


Fig. 4 - Clamping Voltage Characteristics

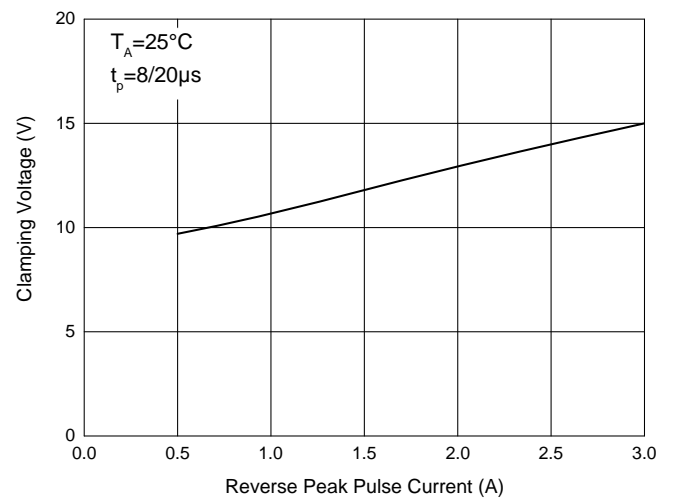


Fig. 5 - Capacitance Characteristics

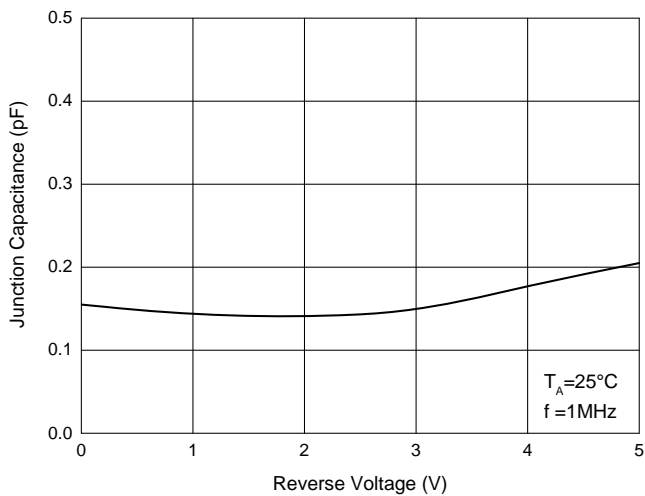
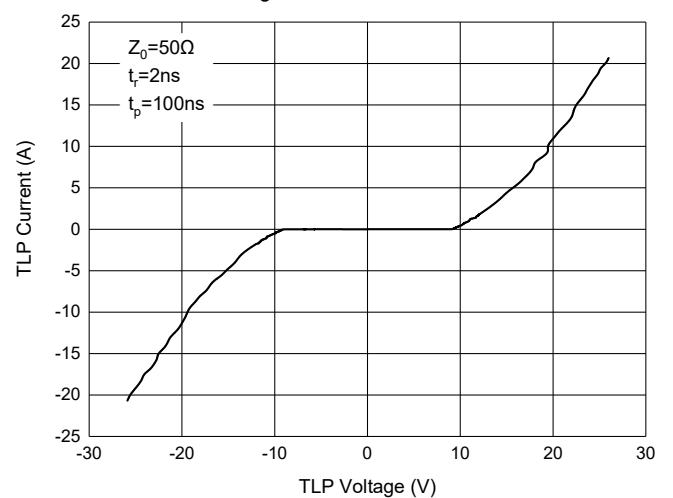


Fig. 6 - TLP Measurement



Ordering Information

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

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