

### **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**

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

MCC Part Number	Device Marking		
ESDLC7V0AE2	7A		

IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV	
Peak Pulse Current(8/20μs)	I <sub>PP</sub>	6A	
Peak Pulse Power (8/20µs)	P <sub>PK</sub>	100W	

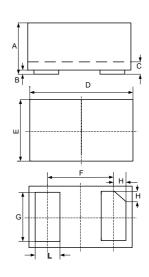
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

#### **Internal Structure**



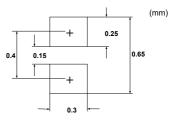
# ESD Protection Device

# 0201-A



	DIMENSIONS					
DIM INCHE		HES	MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.009	0.013	0.23	0.33		
В	0.000	0.002	0.00	0.05		
С	0.005	0.007	0.12	0.18		
D	0.022	0.026	0.55	0.65		
Е	0.010	0.014	0.25	0.35		
F	0.014		0.355		TYP.	
G	0.008	0.011	0.22	0.28		
Н	0.003		0.079		TYP.	
L	0.006	0.009	0.16	0.22		

#### SUGGESTED SOLDER PAD LAYOUT



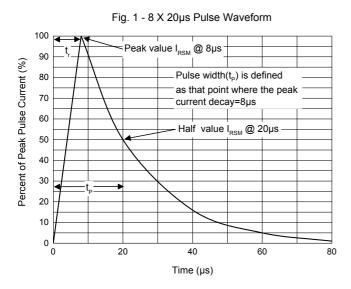


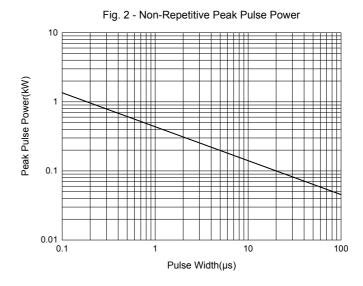
# Electrical Characteristics @ 25°C (Unless Otherwise Specified)

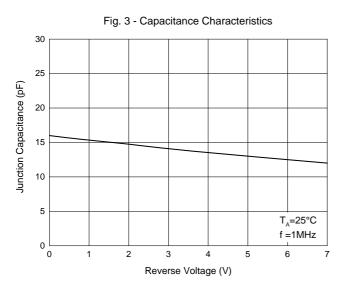
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	$V_{RWM}$				7	V
Reverse Breakdown Voltage	$V_{BR}$	I <sub>T</sub> = 1mA	7.5			V
Reverse Leakage Current	I <sub>R</sub>	V <sub>RWM</sub> = 7V			0.2	μA
Clamping Voltage	V <sub>C</sub>	I <sub>PP</sub> =1A, t <sub>P</sub> =8/20μs			9	V
Clamping Voltage	V <sub>C</sub>	I <sub>PP</sub> =6A, t <sub>P</sub> =8/20μs			17	V
Junction Capacitance	CJ	$V_R = 0V, f = 1MHz$		15		pF

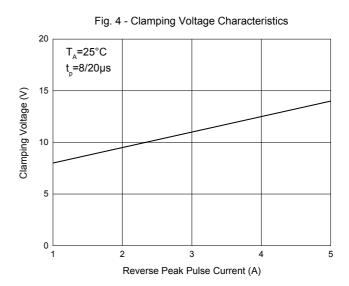


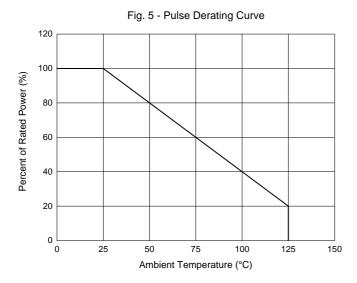
## **Curve Characteristics**













# **Ordering Information**

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

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