

Features

- · Chip Scale Package
- · Ultra Low Capacitance
- · 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		
CSPLC5V0AE	AM		

IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV		
Peak Pulse Current(8/20µs)	I _{PP}	9A		
Peak Pulse Power (8/20µs)	P _{PK}	90W		

Note

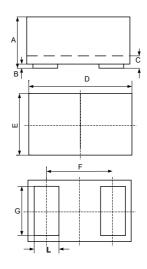
1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure



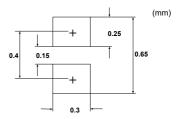
ESD Protection Device

CSP0201



DIMENSIONS					
DIM INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.008	0.013	0.21	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	0.215	0.28	
L	0.006	0.009	0.16	0.22	

SUGGESTED SOLDER PAD LAYOUT



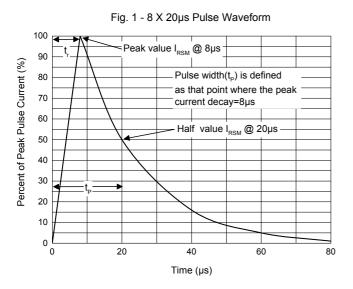


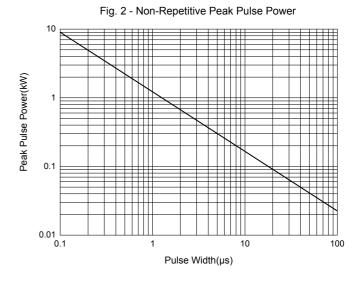
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

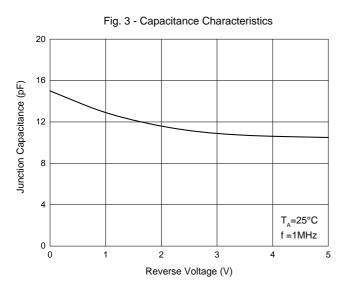
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	5.8	6.4		V
Reverse Leakage Current	I _R	V _{RWM} =5V			0.5	μA
Clamping Voltage	V _C	I _{PP} =1A, t _P =8/20μs		7	8.5	V
Clamping Voltage	V _C	I _{PP} =9A, t _P =8/20μs		8.5	10	V
Dynamic Resistance	R _{DYN}	TLP=0.2/100ns		0.2		Ω
Junction Capacitance	CJ	V _R =0V, f=1MHz		15	20	pF

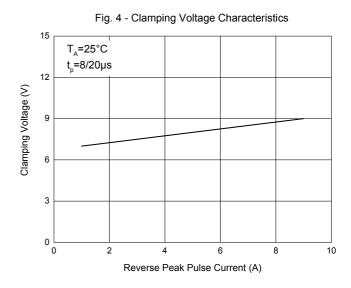


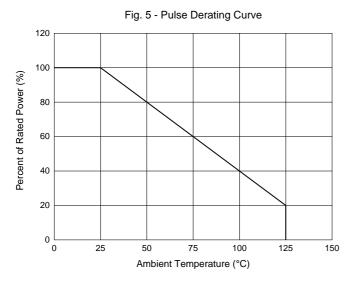
Curve Characteristics













Ordering Information

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

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