

Features

- · Chip Scale Package
- Ultra Low Capacitance
- · Ultra Low Leakage
- Low Clamping Voltage
- · Halogen Free
- Epoxy Meets UL 94 V-0 Flammability Rating
- 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		
CSPSBULC5V0LB	S1		

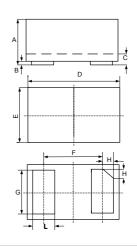
IEC61000-4-2(ESD)	Air Contact	±20KV ±15KV
Peak Pulse Current(8/20µs)	I _{PP}	5A
Peak Pulse Power (8/20µs)	P _{PK}	35W

Internal Structure



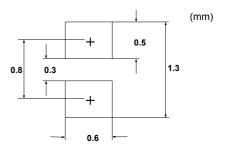
ESD Protection Device

CSP1006-2



DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.018	0.022	0.45	0.55		
В	0.000	0.002	0.00	0.05		
С	0.005	0.007	0.12	0.18		
D	0.037	0.041	0.95	1.05		
Е	0.022	0.026	0.55	0.65		
F	0.0)26	0.6	650	TYP.	
G	0.018	0.022	0.45	0.55		
Н	0.003	0.007	0.07	0.17		
L	0.008	0.012	0.20	0.30		

SUGGESTED SOLDER PAD LAYOUT



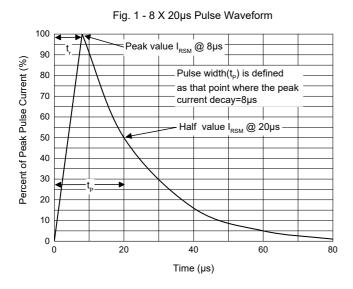


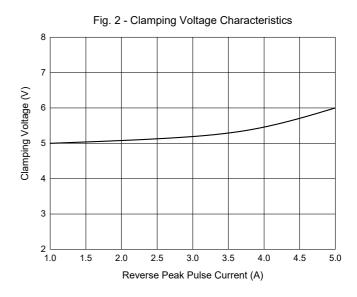
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

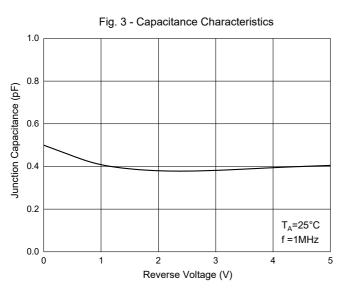
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	8	12	14	٧
Holding Voltage	V _H	I _T =100mA	2.6		4	٧
Reverse Leakage Current	I _R	V _{RWM} =5V			0.2	μA
Clamping Voltage	V _C	I _{PP} =1A, t _P =8/20μs		5		V
Clamping Voltage	V _C	I _{PP} =5A, t _P =8/20μs		6	8	٧
Junction Capacitance	CJ	V _R =0V, f=1MHz		0.5	1	pF

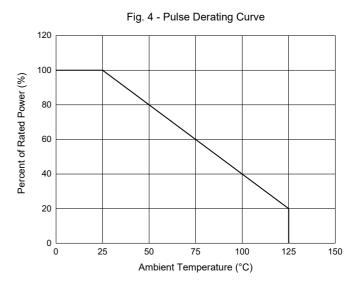


Curve Characteristics











Ordering Information

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

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