

Features

- Chip Scale Package
- Protects one Power Line
- Ultra Low Leakage ٠
- Low Clamping Voltage ٠
- Halogen Free. "Green" Device (Note 1) ٠
- Epoxy Meets UL 94 V-0 Flammability Rating ٠
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS • Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- S •

Storage Temperature Range: -5	0	
MCC Part Number	Device Marking	
CSPH5V0LB	V5	
	Δir	+30K\/

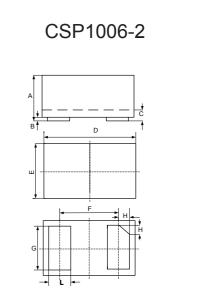
IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV
Peak Pulse Current(8/20µs)	I _{PP}	100A
Peak Pulse Power (8/20µs)	P _{PK}	900W

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

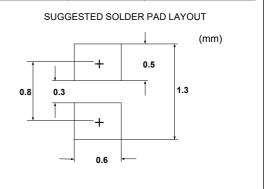
Internal Structure







DIMENSIONS					
DIM INCHE		HES	MM		NOTE
Divi	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	
E	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	



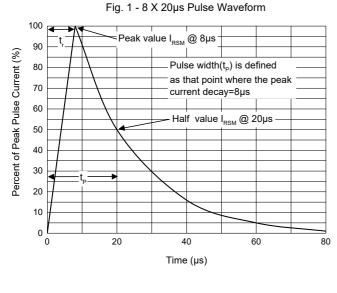


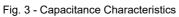
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

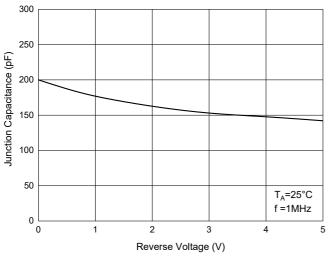
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				5	V
Reverse Breakdown Voltage	V _{BR}	I _T =1mA	5.5	6.3	7.5	V
Reverse Leakage Current	I _R	V _{RWM} =5V			0.5	μA
Clamping Voltage	V _c	I _{PP} =50A, t _P =8/20μs		7.5	9	V
Clamping Voltage	V _c	I _{PP} =100A, t _P =8/20μs		9	10.5	V
Dynamic Resistance	R _{DYN}	TLP=0.2/100ns		0.015		Ω
Junction Capacitance	CJ	V _R =0V, f=1MHz		200	300	pF



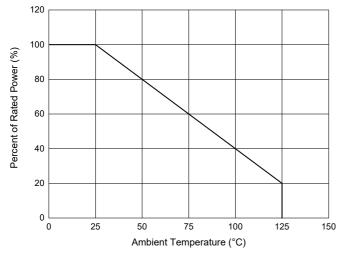
Curve Characteristics











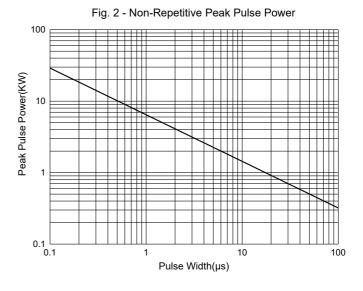
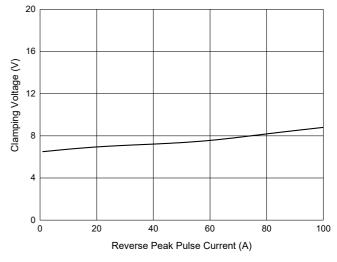


Fig. 4 - Clamping Voltage Characteristics







Ordering Information

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

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