

Features

- Ultra Low Capacitance
- · Low Clamping Voltage
- · Ultra Low Leakage
- · 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)

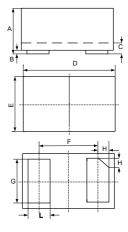
Snap Back ESD Protection Device

Maximum Ratings

IEC61000-4-2(ESD)	Air	±15KV		
12001000 12(200)	Contact	±15KV		
Peak Pulse Power (8/20µs)	PpK	40W		
Peak Pulse Current (8/20µs)(Note 2)	lpp	5A		
Operating Junction Temperature Range	TJ	-40°C to +125°C		
Storage Temperature Range	TSTG	-55°C to +150°C		

Note:

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	0.026		0.650		TYP.
G	0.018	0.022	0.45	0.55	
Ι	0.003	0.007	0.07	0.17	
L	0.008	0.012	0.20	0.30	

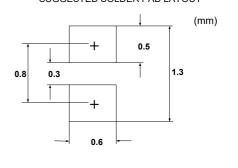
Internal Structure

Marking Code



24L

SUGGESTED SOLDER PAD LAYOUT



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

^{2.} Non-repetitive current pulse 8/20 µs exponential decay waveform according to IEC61000-4-5.



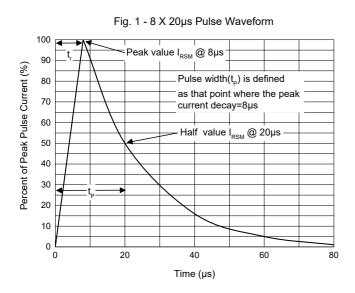
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

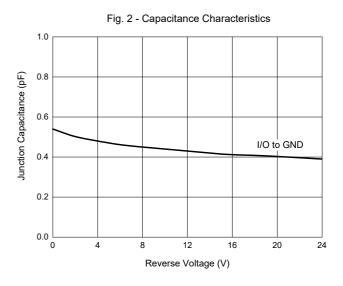
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				24	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	26			V
Reverse Leakage Current	I _R	V _{RWM} =24V			0.2	μA
Holding Voltage	V _h	I _F =100mA	2.0	2.9		V
Clamping Voltage ^{Note1}	V _C	I _{PP} =1A, t _P =8/20μs		4.0		V
Clamping Voltage ^{Note1}	V _C	I _{PP} =5A, t _P =8/20μs		6.0	8.0	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		0.5	0.7	pF
Dynamic Resistance Note2	R _{DYN}	TLP, t _P =100ns		0.5		Ω

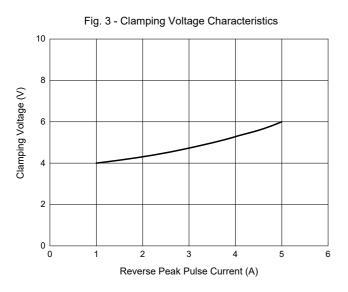
Non-repetitive current pulse 8/20μs exponential decay waveform according to IEC61000-4-5.
 TLP parameter: Z₀=50Ω, t_p=100ns, t_r=2ns, averaging window from 60ns to 80ns. R_{DYN} is calculated from 4A to 16A.

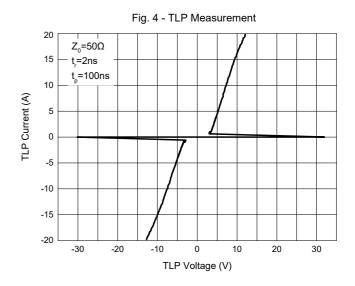


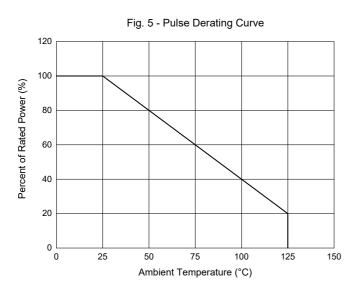
Curve Characteristics













Ordering Information

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

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