

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		
ESDLC12VLB	22L		

IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV	
Peak Pulse Current(8/20μs)	I _{PP}	5A	
Peak Pulse Power (8/20µs)	P _{PK}	100W	

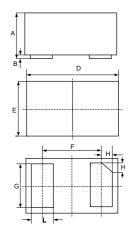
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure



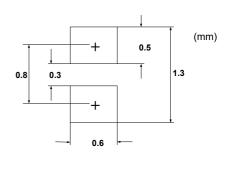
ESD Protection Device

DFN1006-2



	DIMENSIONS					
DIM	INC	HES	MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.013	0.022	0.34	0.55		
В	0.000	0.002	0.00	0.05		
D	0.037	0.043	0.95	1.08		
Е	0.022	0.027	0.55	0.68		
F	0.0)26	0.6	650	REF.	
G	0.016	0.024	0.40	0.60		
Н	0.003	0.007	0.07	0.17		
L	0.008	0.012	0.20	0.30		

Suggested Solder Pad Layout



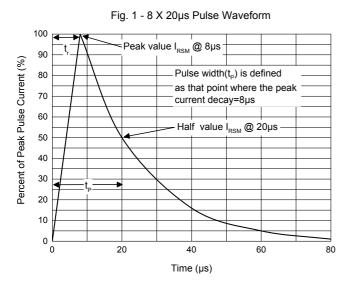


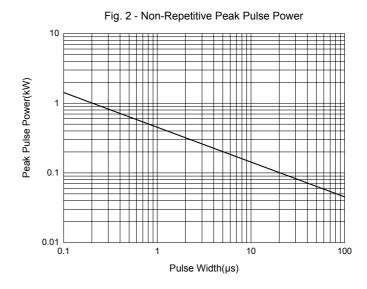
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

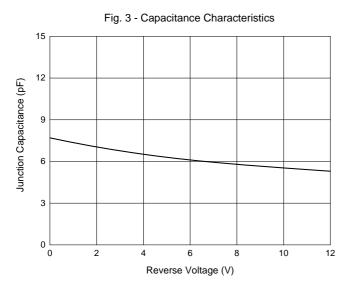
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				12	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	13.3			V
Reverse Leakage Current	I _R	V _{RWM} =12V			0.2	μA
Clamping Voltage	V _C	I _{PP} =1A, t _P =8/20μs			16	V
Clamping Voltage	V _C	I _{PP} =5A, t _P =8/20μs			20	V
Junction Capacitance	CJ	V _R =12V, f=1MHz			7	pF

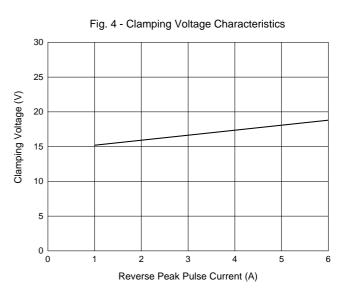


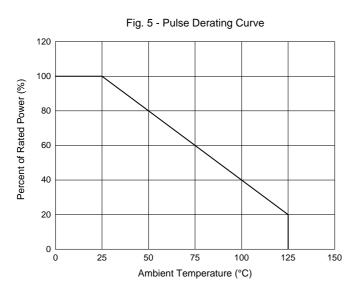
Curve Characteristics













Ordering Information

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

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Rev.3-3-12012020

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