

Features

- Protects One Data or Power Line
- Low Clamping Voltage
- · Ultra Low Leakage: nA Level
- Halogen Free. "Green" Device (Note 1)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 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
ESDLC5V0LB	B2

IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV
IEC61000-4-4 (EFT) @5/50ns		40A
IEC61000-4-5(Surge) @8/20us	I _{PP}	8A
Peak pulse power(tp=8/20us)	P _{PP}	80W

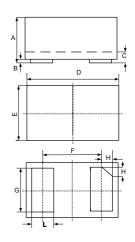
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure



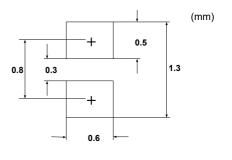
ESD Protection Device

DFN1006-2



DIMENSIONS					
DIM	M 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	
Н	0.003	0.007	0.07	0.17	
L	0.008	0.012	0.20	0.30	

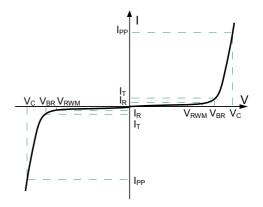
SUGGESTED SOLDER PAD LAYOUT





ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

Symbol	Parameter		
I _{PP}	Maximum Reverse Peak Pulse Current		
Vc	Clamping Voltage @ I _{PP}		
V _{RWM}	Working Peak Reverse Voltage		
I _R	Maximum Reverse Leakage Current @ V _{RWM}		
V _{BR}	Breakdown Voltage @ I _T		
I _T	Test Current		
С	Capacitance @V _R =0 and f =1MHz		

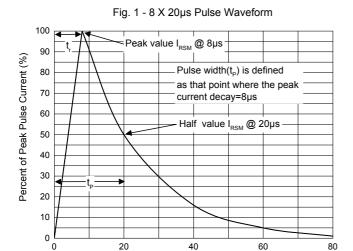


Electrical Characteristics per line @ 25°C (Unless Otherwise Specified)

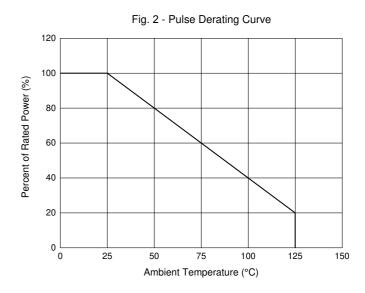
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Stand-Off Voltage	V_{RWM}				5.5	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	6		8	V
Reverse Leakage Current	I _R	V _{RWM} =5.5V		1	200	nA
Clamping Voltage	V _C	I _{PP} =1A, t _P =8/20μs			8	V
Clamping Voltage	V _C	I _{PP} =8A, t _P =8/20μs			10	V
Junction Capacitance	CJ	$V_R = 0V, f = 1MHz$			20	рF

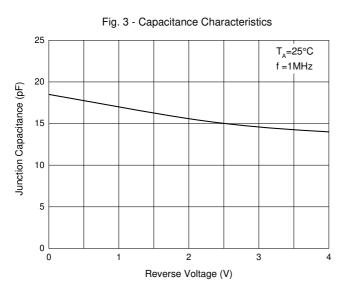


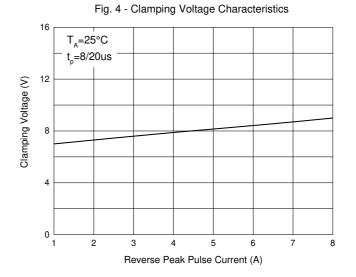
Curve Characteristics



Time (µs)









Ordering Information

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

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