

Features

- · Protects One Data or Power Line
- Ultra 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

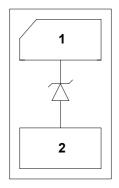
- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C

MCC Part Number	Device Marking
ESDLC3V3L	3P

IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV
IEC61000-4-4 (EFT) @5/50ns		40A
IEC61000-4-5(Surge) @8/20us	I _{PP}	10A
Peak pulse power(tp=8/20us)	P _{PP}	150W

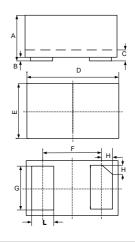
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Circuit and Pin Schematic



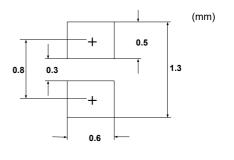
ESD Protection Device

DFN1006-2



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



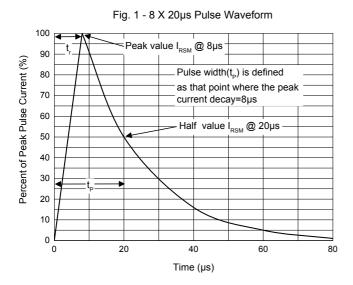


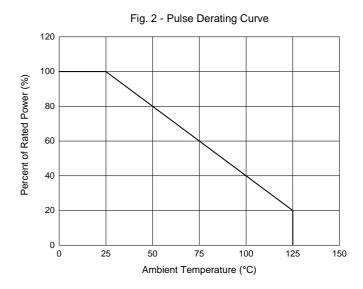
Electrical Characteristics per line @ 25°C (Unless Otherwise Specified)

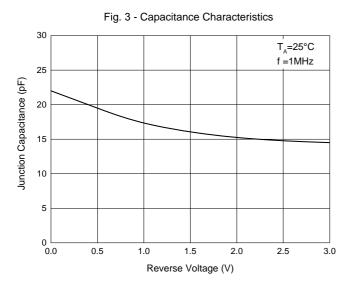
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Stand-Off Voltage	V_{RWM}				3.3	V
Punch-Through Voltage	V _{PT}	I _T =2μA	3.5			V
Snap-Back Voltage	V _{SB}	I _T =50mA	2.8			V
Reverse Leakage Current	I _R	V _{RWM} =3.3V			0.5	μA
Clamping Voltage	V _C	I _{PP} =1A, t _P =8/20μs		7		V
Clamping Voltage	V _C	I _{PP} =10A, t _P =8/20μs			15	V
Junction Capacitance	CJ	$V_R = 0V, f = 1MHz$		22	30	pF
Junction Capacitance	CJ	$V_R = 3.3V, f = 1MHz$		14	20	pF

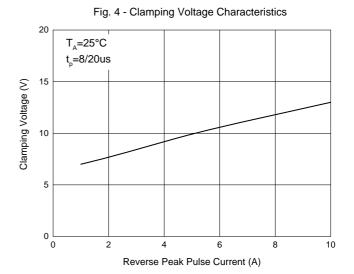


Curve Characteristics











Ordering Information

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

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