

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

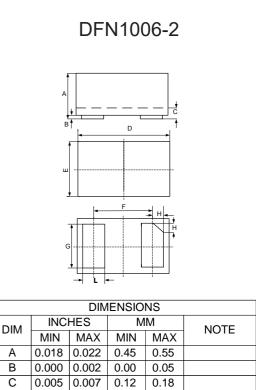
IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV
IEC61000-4-4 (EFT) @5/50ns		40A
IEC61000-4-5(Surge) @8/20us	I _{PP}	8A
Peak pulse power(tp=8/20us)	P _{PP}	80W

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

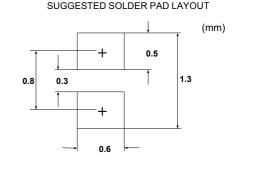






В	0.000	0.002	0.00	0.05	
С	0.005	0.007	0.12	0.18	
D	0.037	0.041	0.95	1.05	
E	0.022	0.026	0.55	0.65	
F	0.0	026	0.6	650	TYP.
G	0.018	0.022	0.45	0.55	
Н	0.003	0.007	0.07	0.17	
L	0.008	0.012	0.20	0.30	

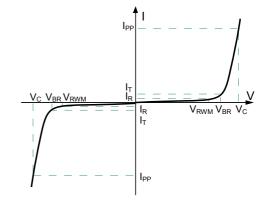
Α





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

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

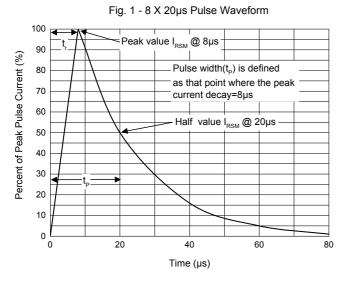


Electrical Characteristics per line @ 25°C (Unless Otherwise Specified)

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	pF



Curve Characteristics



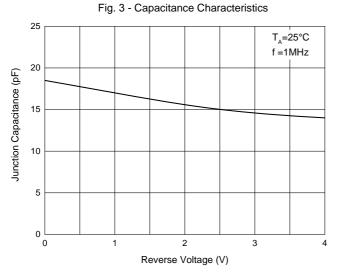
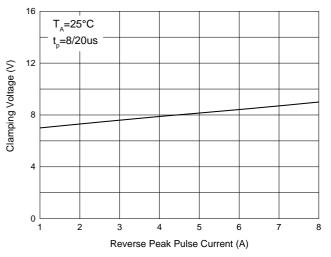


Fig. 2 - Pulse Derating Curve Percent of Rated Power (%) Ambient Temperature (°C)

Fig. 4 - Clamping Voltage Characteristics





Ordering Information

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

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