

Features

- Ultra Low Capacitance
- Ultra Low Operating Voltage
- Low Clamping Voltage
- 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
ESDSLC3V3LB	3L

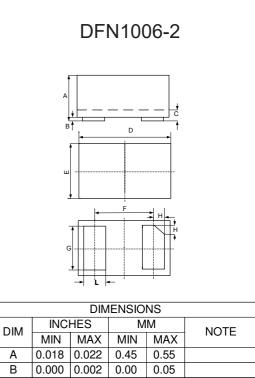
IEC61000-4-2(ESD)	Air Contact	±20KV ±25KV
IEC61000-4-4 (EFT) @5/50ns		40A
IEC61000-4-5(Surge) @8/20us	I _{PP}	5A
Peak pulse power(tp=8/20us)	P _{PP}	100W

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

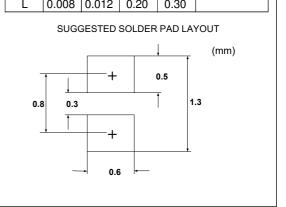
Internal Structure







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	
E	0.022	0.026	0.55	0.65	
F	0.0	0.026 0.0		50	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	



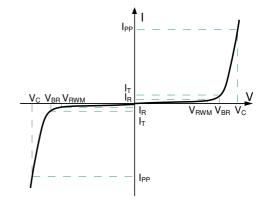


С

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
Ι _τ	Test Current

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 Working Voltage	V _{RWM}				3.3	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	5			V
Reverse Leakage Current	I _R	V _{RWM} =3.3V			0.05	μA
Clamping Voltage	V _c	I _{PP} =1A, t _P =8/20μs			10	V
Clamping Voltage	V _c	I _{PP} =5A, t _P =8/20μs			20	V
Junction Capacitance	CJ	V _R = 0V, f = 1MHz		0.25	0.3	pF



Curve Characteristics

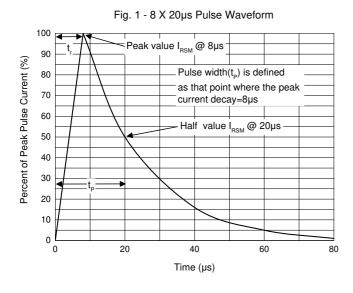
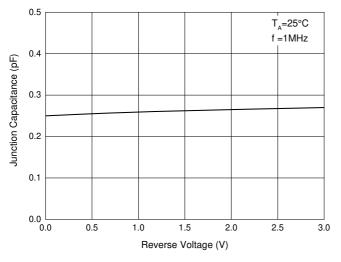
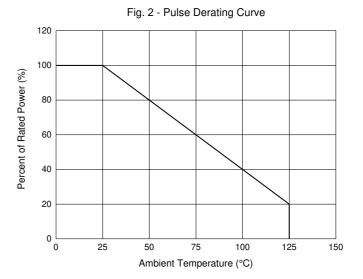
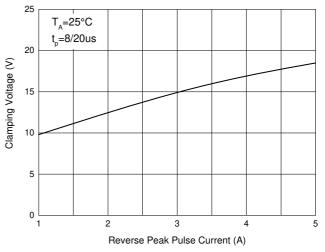


Fig. 3 - Capacitance Characteristics











Ordering Information

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

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