

Features

- Ultra Low Capacitance
- 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
ESDSLC5V0LB	21

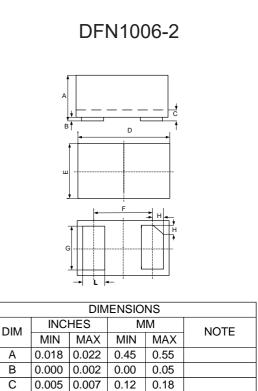
IEC61000-4-2(ESD)	Air Contact	±25KV ±22KV
IEC61000-4-4 (EFT) @5/50ns		40A
IEC61000-4-5(Surge) @8/20us	I _{PP}	4A
Peak pulse power(tp=8/20us)	P _{PP}	100W

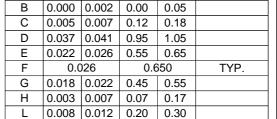
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

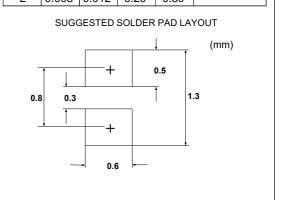
Internal Structure







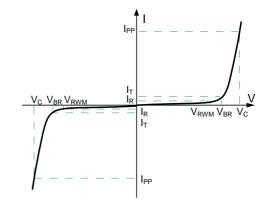






ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

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 per line @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	6	8	9	V
Reverse Leakage Current	I _R	V _{RWM} =5V			0.5	μA
Clamping Voltage	V _C	I _{PP} =1A, t _P =8/20μs			12	V
Clamping Voltage	V _C	I _{PP} =4A, t _P =8/20μs			20	V
Junction Capacitance	CJ	V _R = 0V, f = 1MHz		0.26	0.35	pF



Curve Characteristics

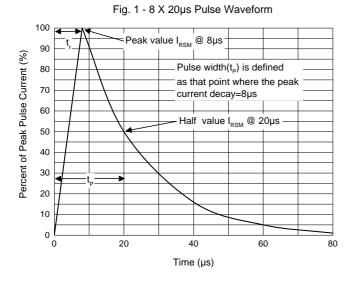
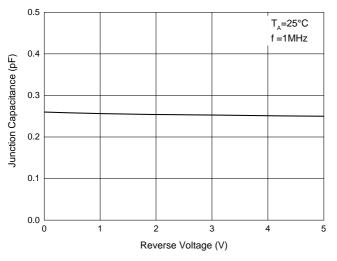
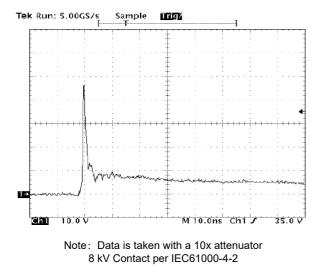


Fig. 3 - Capacitance Characteristics







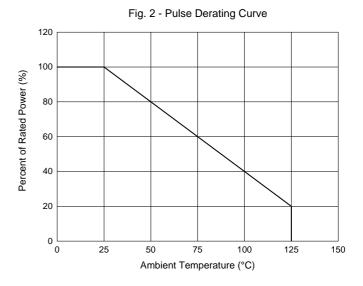
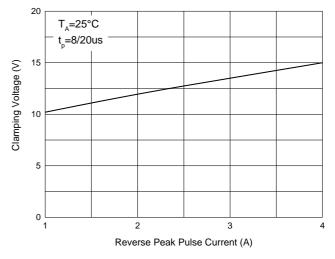
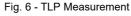
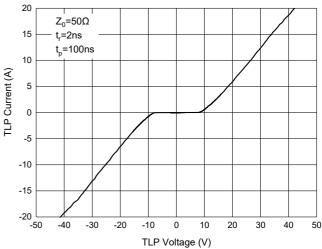


Fig. 4 - Clamping Voltage Characteristics









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

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