

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

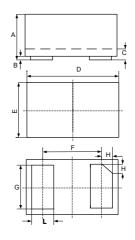
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure



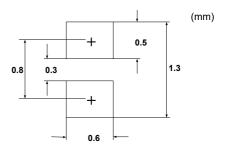
ESD Protection Device

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	0.026		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		

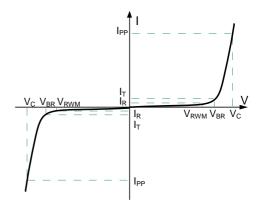
SUGGESTED SOLDER PAD LAYOUT





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

Symbol	Parameter		
I _{PP}	Maximum Reverse Peak Pulse Current		
Vc	Clamping Voltage @ IPP		
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		

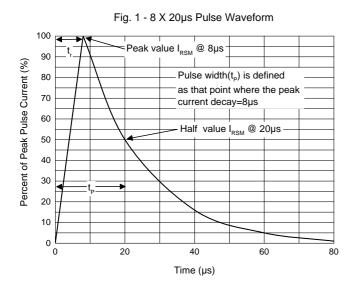


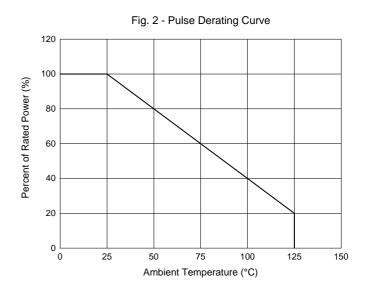
Electrical Characteristics per line @ 25°C (Unless Otherwise Specified)

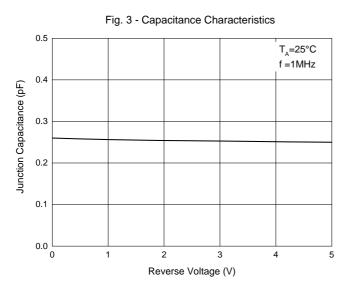
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	6	8	9	V
Reverse Leakage Current	I _R	V _{RWM} =5V			0.5	μΑ
Clamping Voltage	V _C	I _{PP} =1A, t _P =8/20µs			12	V
Clamping Voltage	V _C	I _{PP} =4A, t _P =8/20μs			20	V
Junction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

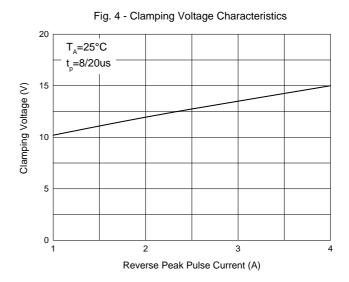


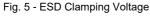
Curve Characteristics

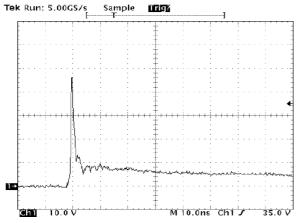




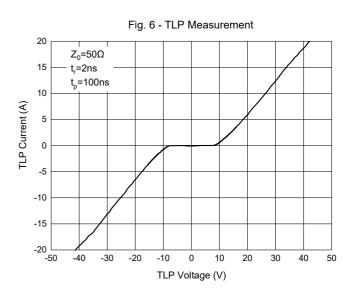








Note: Data is taken with a 10x attenuator 8 kV Contact per IEC61000-4-2





Ordering Information

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

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