

Features

- · Low Operating Voltage
- Low Clamping Voltage
- · Ultra Low Leakage: nA level
- · Moisture Sensitivity Level 1
- · Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

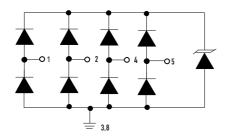
- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C

MCC Part Number	Device Marking
ESDLC0544P5	0544

IEC61000-4-2(ESD)	Air Contact	±30KV ±25KV	
IEC61000-4-4 (EFT) @5/50ns		40A	
Peak Pulse Current(8/20µs)	I _{PP}	4A	
Peak Pulse Power (8/20µs)	P _{PK}	100W	

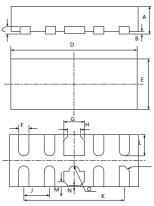
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Circuit and Pin Schematic



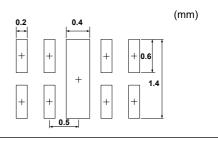
ESD Protection Device

DFN2510-10



D.I. (E.) (0.10.10						
DIMENSIONS						
DIM INCI		HES	MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOIL	
Α	0.018	0.022	0.45	0.55		
В	0.000	0.002	0.00	0.05		
С	0.004	0.008	0.10	0.20		
D	0.098	0.102	2.45	2.55		
Е	0.038	0.042	0.95	1.05		
F	0.006	0.010	0.15	0.25		
G	0.014	0.018	0.35	0.45		
Н	0.008	0.012	0.20	0.30		
J	0.0)20	0.5	500	TYP.	
K	0.080		2.000		TYP.	
L	0.014	0.018	0.35	0.45		
М	0.0	003	0.0	75	TYP.	
N	0.002		0.050		TYP.	
0	0.002	0.006	0.05	0.15		

SUGGESTED SOLDER PAD LAYOUT



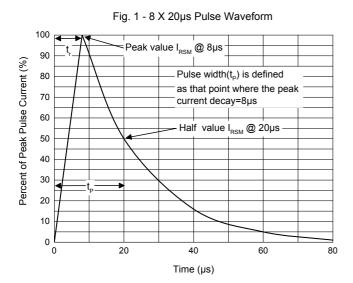


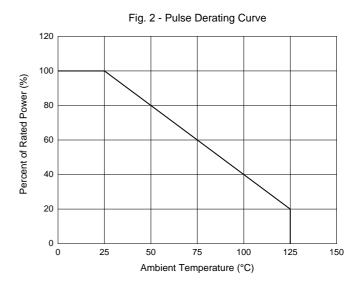
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

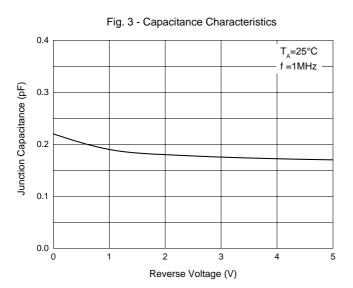
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}	I _R <1μA, Any I/O Pin to Ground			6	V
Reverse Breakdown Voltage	V_{BR}	I _T = 1mA,Any I/O Pin to Ground	6			V
Reverse Leakage Current	I _R	V _{RWM} =5V,Any I/O Pin to Ground			0.5	μΑ
Clamping Voltage	V _C	I _{PP} =1A, t _P =8/20μs, Any I/O Pin to Ground		10		V
Clamping Voltage	V _C	I _{PP} =2A, t _P =8/20μs, Any I/O Pin to Ground		12		V
Clamping Voltage	V _C	I _{PP} =4A, t _P =8/20μs, Any I/O Pin to Ground		20	25	V
Junction Capacitance	CJ	V _R = 0V, f = 1MHz, Any I/O Pin to Ground		0.2	0.3	pF

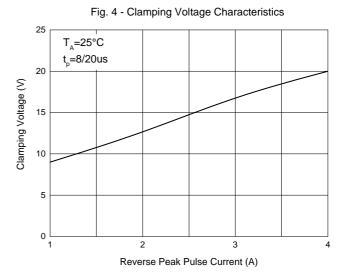


Curve Characteristics











Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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