

#### **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**

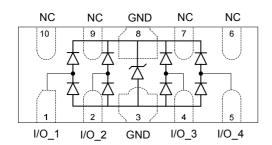
- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C

MCC Part Number	Device Marking
ESDLC3304P5	3324

IEC61000-4-2(ESD)	Air Contact	±20KV ±20KV	
IEC61000-4-4 (EFT) @5/50ns		40A	
Peak Pulse Current(8/20µs)	I <sub>PP</sub>	5A	
Peak Pulse Power (8/20µs)	P <sub>PK</sub>	50W	

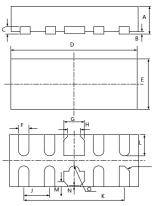
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

#### Circuit and Pin Schematic



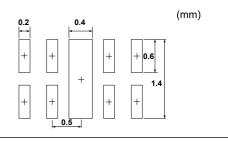
## ESD Protection Device

# DFN2510-10



DIMENSIONS					
DIM INC		HES	M	М	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	0.004	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	0.003		0.075		TYP.
N	0.002		0.050		TYP.
0	0.002	0.006	0.05	0.15	

SUGGESTED SOLDER PAD LAYOUT



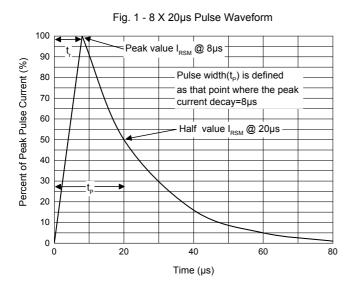


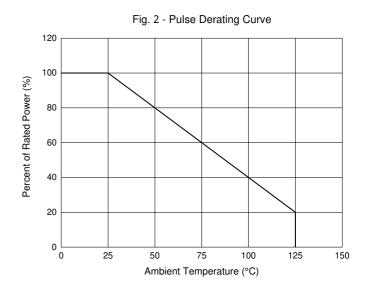
### Electrical Characteristics @ 25°C (Unless Otherwise Specified)

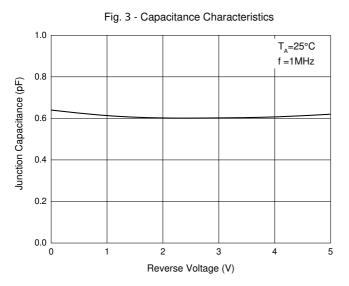
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	$V_{RWM}$	Any I/O Pin to Ground			3.3	V
Punch-Through Voltage	$V_{PT}$	I <sub>T</sub> =2μA, Any I/O Pin to Ground	3.5			V
Snap-Back Voltage	V <sub>SB</sub>	I <sub>T</sub> =50mA, Any I/O Pin to Ground	2.8			V
Reverse Leakage Current	I <sub>R</sub>	V <sub>RWM</sub> =3.3V, Any I/O Pin to Ground			0.5	μА
Clamping Voltage	V <sub>c</sub>	I <sub>PP</sub> =1A, t <sub>P</sub> =8/20μs, Any I/O Pin to Ground			6.5	V
Clamping Voltage	V <sub>c</sub>	I <sub>PP</sub> =5A, t <sub>P</sub> =8/20µs, Any I/O Pin to Ground			10	V
Junction Capacitance	CJ	V <sub>R</sub> = 0V, f = 1MHz, Between I/O Pins		0.6	0.8	pF

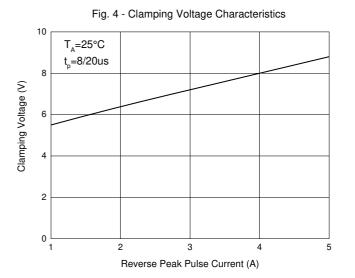


#### **Curve Characteristics**











#### **Ordering Information**

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

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