

Features

- Small Package Saves Board Space
- Protects Four(4) I/O Lines
- Low Clamping Voltage
- Low Capacitance
- Can Handle Multiple ESD Strikes
- 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

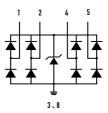
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C

MCC Part Number	Device Marking
ESDLC0524DFN10	0524

IEC61000-4-2(ESD)	Air Contact	±25KV ±25KV
IEC61000-4-5(Surge)@8/20µs	I _{PP}	5A
Peak Pulse Power @ 8/20µs	P _{PP}	150W

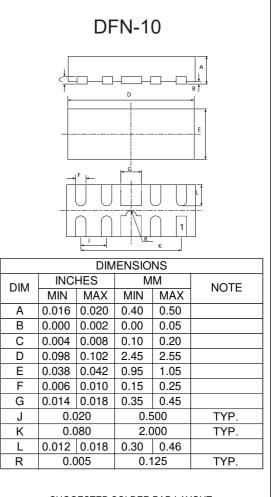
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Pin Configuration

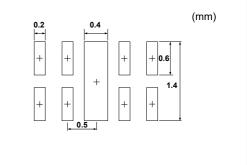


Pin	Identification
1,2,4,5	Input lines
6,7,9,10	Output Lines (No Internal Connection)
3,8	Ground





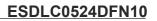
SUGGESTED SOLDER PAD LAYOUT





Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Stand-off Voltage	V _{RWM}	Any I/O Pin to GND			5	V
Reverse Breakdown Voltage	V _{BR}	I _T =1mA, Any I/O Pin to GND	6.1		8.5	V
Reverse Leakage Current	I _R	V _{RWM} =5V, Any I/O Pin to GND			0.9	μA
Forward Voltage	V _F	I _F =15mA, GND to any I/O Pins			1.15	V
Clamping Voltage	V _c	I _{PP} =1A, t _P =8/20μs		9.5	11	V
Clamping Voltage	V _C	I _{PP} =5A, t _P =8/20μs		15	18	V
Junction Capacitance	C _{I/O-GND} C _{I/O-I/O}	V _R =0V, f =1MHz			0.8 0.4	pF

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





Curve Characteristics

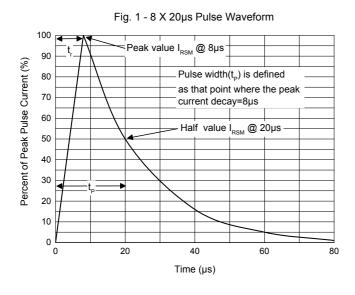


Fig. 3 - Capacitance Characteristics

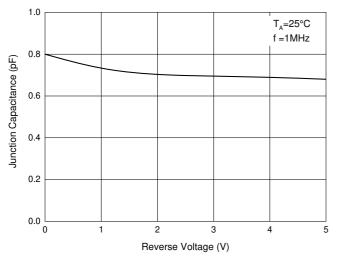
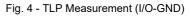
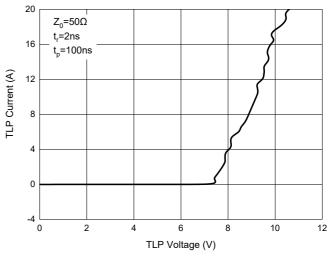


Fig. 2 - Pulse Derating Curve 120 100 Percent of Rated Power (%) 80 60 40 20 0 L 0 25 50 75 100 125 150 Ambient Temperature (°C)







Ordering Information

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

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