

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

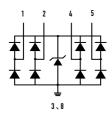
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C

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.

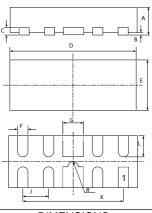
Pin Configuration



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

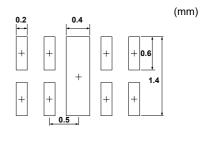
ESD Protection Device

DFN-10



DIMENSIONS					
DIM INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.016	0.020	0.40	0.50	
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	
E	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	
J	0.020		0.500		TYP.
K	0.080		2.000		TYP.
L	0.012	0.018	0.30	0.46	
R	0.005		0.125		TYP.

SUGGESTED SOLDER PAD LAYOUT



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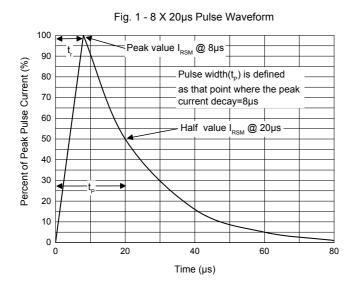


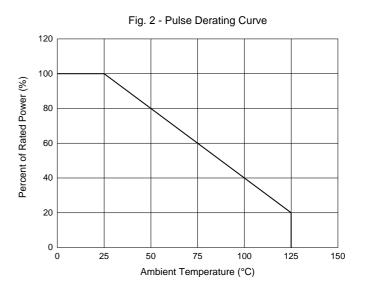
Electrical Characteristics per line @ 25°C (Unless Otherwise Specified)

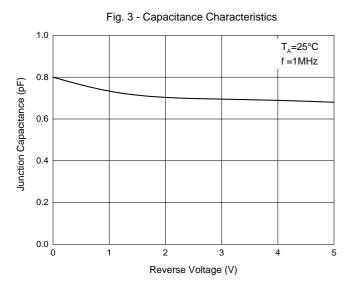
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Stand-off Voltage	V _{RWM}	Any I/O Pin to GND			5	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA, Any I/O Pin to GND	6.1		8.5	V
Reverse Leakage Current	I _R	V _{RWM} =5V, Any I/O Pin to GND			0.9	μА
Forward Voltage	V _F	I _F =15mA, GND to any I/O 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

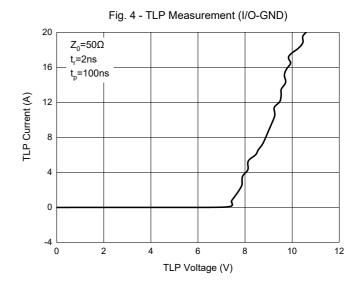


Curve Characteristics











Ordering Information

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

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