

#### **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**

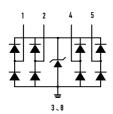
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C

MCC Part Number	Device Marking
ESDLC5V0DFN10	0524P

IEC61000-4-2(ESD)	Air Contact	±15KV ±8KV	
IEC61000-4-5(Surge)@8/20us		5A	
Peak Pulse Power: @ 8/20us	P <sub>PP</sub>	150W	

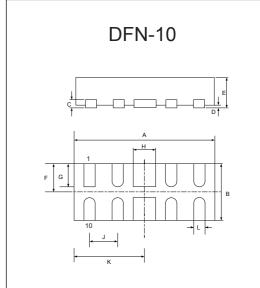
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

## **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



	DIMENSIONS					
DIM INCHE		HES	MM		NOTE	
Diivi	MIN	MAX	MIN	MAX	NOTE	
Α	0.094	0.102	2.40	2.60		
В	0.035	0.043	0.90	1.10		
С	0.005		0.13		TYP.	
D	0.000	0.002	0.00	0.05		
E	0.020	0.026	0.50	0.65		
F	0.017	0.022	0.45	0.55		
G	0.012	0.017	0.30	0.425		
Н	0.014	0.018	0.35	0.45		
J	.020		0.5		TYP.	
K	0.047	0.056	1.20	1.30		
L	0.006	0.010	0.15	0.25		

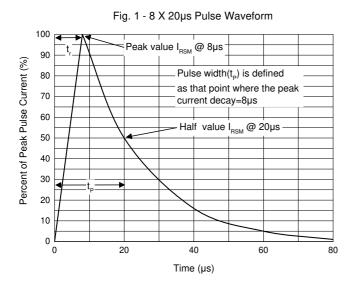


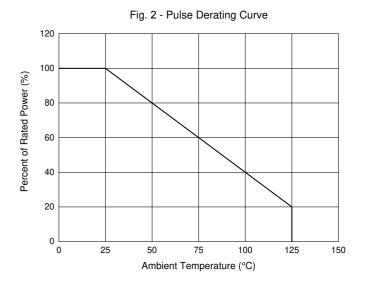
## Electrical Characteristics per line @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse stand-off Voltage	$V_{RWM}$				5	V
Reverse Breakdown Voltage	$V_{BR}$	I <sub>t</sub> =1mA	6			V
Reverse Leakage Current	I <sub>R</sub>	V <sub>RWM</sub> =5V			1	μA
Clamping Voltage	V <sub>C</sub>	I <sub>PP</sub> =1A, t <sub>P</sub> =8/20μs			12.5	V
Clamping Voltage	V <sub>C</sub>	I <sub>PP</sub> =5A, t <sub>P</sub> =8/20μs			28	V
Junction Capacitance	CJ	V <sub>R</sub> =0V, f =1MHz		0.5	0.9	pF



## **Curve Characteristics**







## **Ordering Information**

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

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