



**Micro Commercial Components** 

Micro Commercial Components 20736 Marilla Street Chatsworth

CA 91311

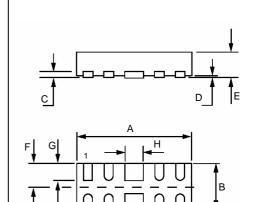
Phone: (818) 701-4933 Fax: (818) 701-4939

## ESDLC5V0DFN10

# 5 Volts

# **ESD Protection Device**

**DFN-10** 



DIMENSIONS						
	INCHES		MM			
DIM	MIN	MAX	MIN MAX		NOTE	
Α	.0094	0.102	2.40	2.60		
В	.035	.043	0.90 1.10			
С	.005		0.13			
D	.000	.002	0.00	0.05		
Е	.020	.026	0.50	0.65		
F	.017	.022	0.45	0.55		
G	.012	.017	0.30 0.425			
Ι	.014	.018	0.35	0.45		
J	.020	.020BSC		0.5BSC		
K	.047	.056	1.20	1.30		
L	.006	.010	0.15	0.25		

## **Features**

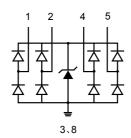
- Halogen free available upon request by adding suffix "-HF" Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information) Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Small package saves board space
- Protects four(4) I/O lines
- Low clamping voltage
- 150W peak pulse power (tp=8/20us)
- Low capacitance
- Can handle multiple ESD strikes

## **Maximum Ratings**

Operating Junction &StorageTemperature: -55°C to +150°C

Parameter	Symbol	Limits	unit
IEC61000-4-2(ESD) A	r	±15	10.7
Con	act	$\pm$ 8	KV
IEC61000-4-5 (lightning): @ 8/20	)us	24	Α
Peak Pulse Power: @ 8/20us	Ppp	150	W

# **PinConfiguration**





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## Electrical characteristics per line@25°C(unless otherwise specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse stand-off voltage	$V_{RWM}$				5	V
Reverse Breakdown voltage	$V_{BR}$	I <sub>t</sub> = 1mA	6			٧
Reverse Leakage Current	I <sub>R</sub>	V <sub>RWM</sub> = 5V T=25°C			1	μΑ
Junction Capacitance	C <sub>j</sub>	V <sub>R</sub> =0V f = 1MHz		0.5		pF
Clamping voltage	V <sub>C</sub>	Ipp=1A			12.5	V
Clamping voltage	Vc	Ipp=5A			28.0	V

## **Typical Characteristics**

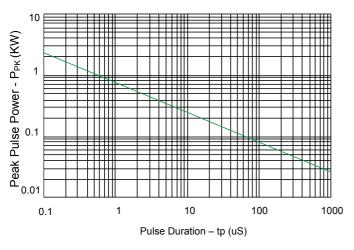


Fig1.Non-Repetitive Peak Pulse Power vs. Pulse time

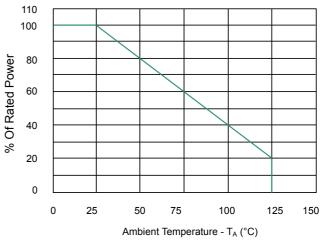


Fig2. Power Derating Curve

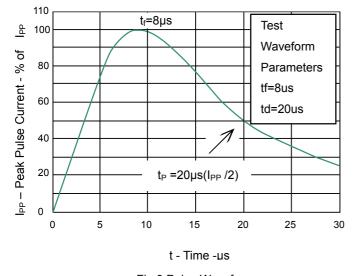


Fig 3.Pulse Waveform

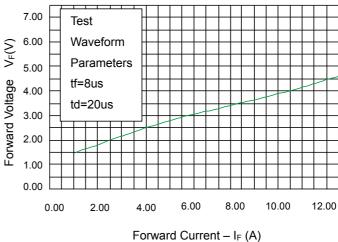


Fig.4 Forward Voltage vs. Forward Current

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### **Ordering Information:**

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

Note: Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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