

#### **Features**

- · Ultra Low Capacitance
- · Low Operating Voltage
- · Low Clamping Voltage
- · 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**

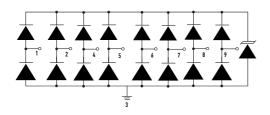
- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C

MCC Part Number	Device Marking
ESDLC5V0PB8	0508P

IEC61000-4-2(ESD)	Air Contact	±15KV ±8KV	
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>	100W	

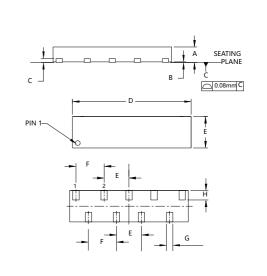
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

## **Circuit and Pin Schematic**



# ESD Protection Device

# DFN3810-9



	DIMENSIONS				
DIM	INC	HES	MM		NOTE
ואווט	MIN	MAX	MIN	MAX	INOTE
Α	0.018	0.022	0.45	0.55	
В	0.000	0.002	0.00	0.05	
С	0.005		0.13		
D	0.146	0.154	3.70	3.90	
E	0.031		0.8	300	TYP.
F	0.0	)35	0.9	900	TYP.
G	0.006	0.010	0.15	0.25	
Н	0.010	0.014	0.25	0.35	

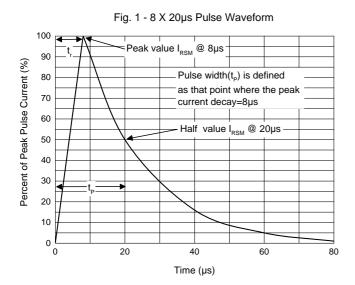


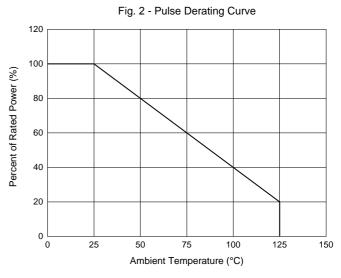
# Electrical Characteristics @ 25°C (Unless Otherwise Specified)

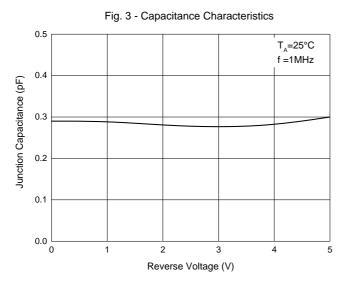
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	$V_{RWM}$	Any I/O Pin to Ground			5	V
Reverse Breakdown Voltage	$V_{BR}$	I <sub>T</sub> = 1mA, Any I/O Pin to Ground	6			V
Reverse Leakage Current	I <sub>R</sub>	V <sub>RWM</sub> =5V, Any I/O Pin to Ground			0.5	μA
Clamping Voltage	V <sub>c</sub>	I <sub>PP</sub> =1A, t <sub>P</sub> =8/20μs, Any I/O Pin to Ground			15	V
Clamping Voltage	V <sub>c</sub>	I <sub>PP</sub> =5A, t <sub>P</sub> =8/20μs, Any I/O Pin to Ground			20	V
Junction Capacitance	CJ	V <sub>R</sub> = 0V, f = 1MHz, Any I/O Pin to Ground		0.29	0.35	pF

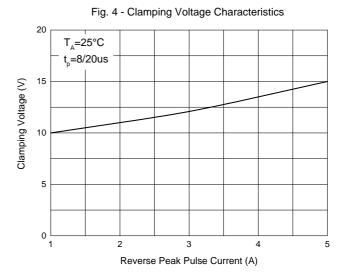


#### **Curve Characteristics**











# **Ordering Information**

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

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