

#### **Features**

- · Low Leakage: nA Level
- · Ultra Low Capacitance
- · 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

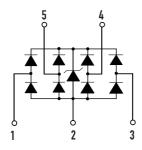
MCC Part Number	Device Marking		
ESD5V0PW	5P		

IEC61000-4-2(ESD)	Air Contact	±20KV ±15KV	
Peak Pulse Current(8/20µs)	I <sub>PP</sub>	3A	
Peak Pulse Power (8/20us)	P <sub>PK</sub>	36W	

#### Note:

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

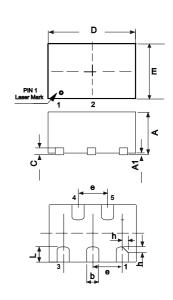
#### **Internal Structure**



Pin	Identification
1	I/O 1
2	Ground
3	I/O 2
4	I/O 3
5	I/O 4

# ESD Protection Device

## DFN1308-5



DIMENSIONS					
DIM INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOIL
Α	0.012	0.016	0.30	0.40	
A1	0.000	0.002	0.00	0.05	
b	0.006	0.010	0.15	0.25	
С	0.005		0.127		TYP.
D	0.047	0.056	1.20	1.40	
E	0.028	0.036	0.70	0.90	
е	0.020		0.50		TYP.
h	0.004	0.006	0.10	0.15	
L	0.008	0.012	0.20	0.30	



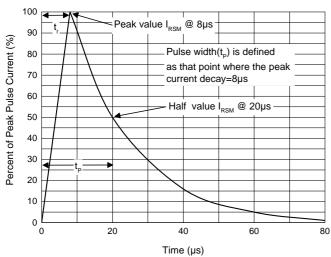
## Electrical Characteristics @ 25°C (Unless Otherwise Specified)

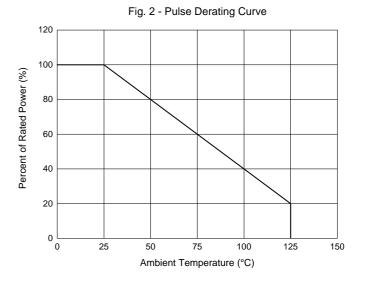
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	$V_{RWM}$				5	V
Reverse Breakdown Voltage	$V_{BR}$	I <sub>T</sub> = 1mA	6.5	7.5	9.0	V
Reverse Leakage Current	I <sub>R</sub>	V <sub>R</sub> =5V		10	100	nA
Clamping Voltage I/O-GND	V <sub>C</sub>	I <sub>PP</sub> =1A, t <sub>P</sub> =8/20μs, Pin 1,3,4,5 to 2			10	V
Clamping Voltage I/O-GND	V <sub>C</sub>	I <sub>PP</sub> =3A, t <sub>P</sub> =8/20μs, Pin 1,3,4,5 to 2			12	V
Junction Capacitance	C <sub>I/O-GND</sub>	V <sub>R</sub> = 0V, f = 1MHz, Pin Capacitance to GND.		0.35	0.45	pF
Junction Capacitance	C <sub>I/O-I/O</sub>	V <sub>R</sub> = 0V, f = 1MHz, Pin Capacitance to I/O.		0.2	0.25	pF



## **Curve Characteristics**

Fig. 1 - 8 X 20µs Pulse Waveform







## **Ordering Information**

Device	Packing
Part Number-TP	Tape&Reel: 5Kpcs/Reel

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