

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

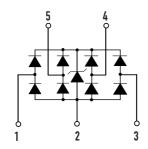
MCC Part Number	Device Marking
ESD5V0PW	5P

IEC61000-4-2(ESD)	Air Contact	±20KV ±15KV	
Peak Pulse Current(8/20µs)	I _{PP}	ЗA	
Peak Pulse Power (8/20us)	P _{PK}	36W	

Note:

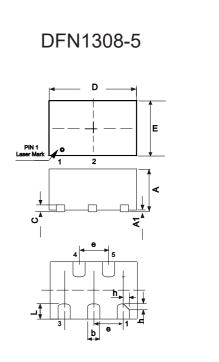
1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure



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





	DIMENSIONS					
DIM	INCHES		M	М	NOTE	
DIV	MIN	MAX	MIN	MAX	NOTE	
А	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		

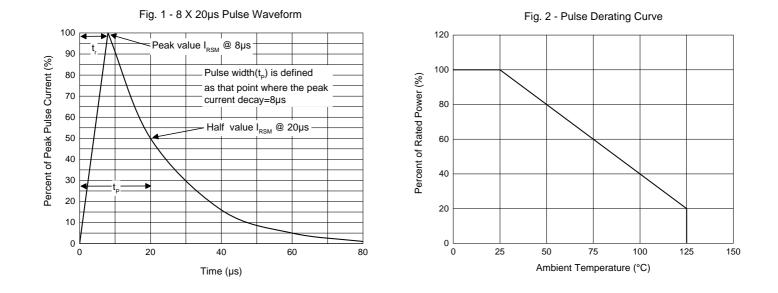


Electrical Characteristics @ 25°C (Unless Otherwise Specified)

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



Curve Characteristics



Rev.3-3-10292020



Ordering Information

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

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