

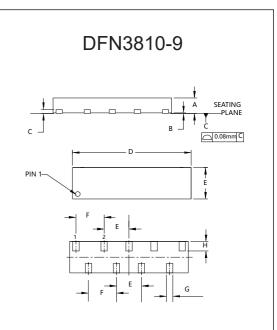
Features

- 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



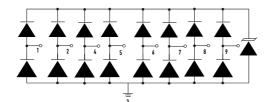


MCC Part Number	Device Marking
ESDLC5V0PB8	0508P
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IEC61000-4-2(ESD)	Air Contact	±15KV ±8KV	
IEC61000-4-4 (EFT) @5/50ns		40A	
Peak Pulse Current(8/20µs)	I _{PP}	5A	
Peak Pulse Power (8/20µs)	P _{PK}	100W	

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



	DIMENSIONS				
DIM	INC	INCHES		IM	NOTE
	MIN	MAX	MIN	MAX	NOTE
A	0.018	0.022	0.45	0.55	
В	0.000	0.002	0.00	0.05	
С	0.0	05	0.1	13	
D	0.146	0.154	3.70	3.90	
E	0.0	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)

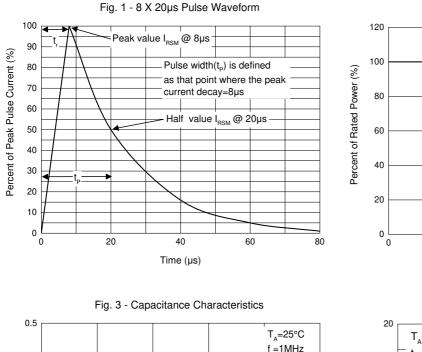
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}	Any I/O Pin to Ground			5	V
Reverse Breakdown Voltage	V_{BR}	I _T = 1mA, Any I/O Pin to Ground	6			V
Reverse Leakage Current	I _R	V _{RWM} =5V, Any I/O Pin to Ground			0.5	μΑ
Clamping Voltage	V _c	I _{PP} =1A, t _P =8/20µs, Any I/O Pin to Ground			15	V
Clamping Voltage	V _c	I _{PP} =5A, t _P =8/20µs, Any I/O Pin to Ground			20	V
Junction Capacitance	CJ	V _R = 0V, f = 1MHz, Any I/O Pin to Ground		0.29	0.35	pF

150

125



Curve Characteristics



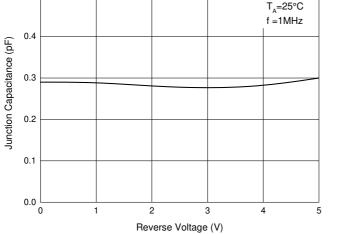


Fig. 4 - Clamping Voltage Characteristics

75

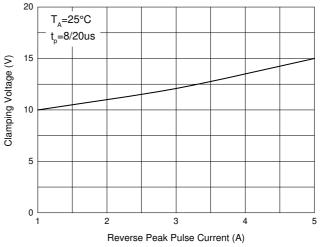
Ambient Temperature (°C)

100

25

50

Fig. 2 - Pulse Derating Curve





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

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