

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

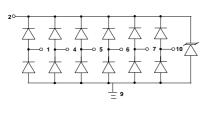
- Operating Junction Temperature Range: -55°C to +125°C ٠
- Storage Temperature Range: -55°C to +150°C •

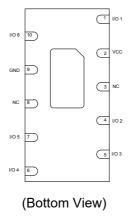
MCC Part Number	Device Marking
ESDLC5V0PA6	0506

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

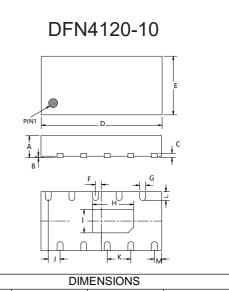
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Circuit and Pin Schematic



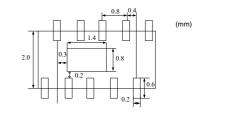






DIMENSIONS					
DIM	INCHES		MM		NOTE
Divi	MIN	MAX	MIN	MAX	NOTE
А	0.020	0.024	0.50	0.60	
В	0.000	0.002	0.00	0.05	
С	0.0	006	0.1	150	TYP.
D	0.162	0.166	4.05	4.15	
Е	0.075	0.082	1.95	2.05	
F	0.0	08	0.2	200	TYP.
G	0.006	0.010	0.15	0.25	
Н	0.050	0.060	1.25	1.50	
I	0.026	0.036	0.65	0.90	
J	0.0	016	0.	40	TYP.
K	0.0)32	0.	80	TYP.
L	0.008	0.016	0.20	0.40	
Μ	0.0	010	0.	25	TYP.







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	μA
Clamping Voltage	V _c	I _{PP} =1A, t _P =8/20µs, Any I/O Pin to Ground			12	V
Clamping Voltage	V _c	I _{₽₽} =4A, t _P =8/20µs, Any I/O Pin to Ground			25	V
Junction Capacitance	CJ	V _R =0V, f = 1MHz, Any I/O Pin to Ground		0.3	0.4	pF



Curve Characteristics

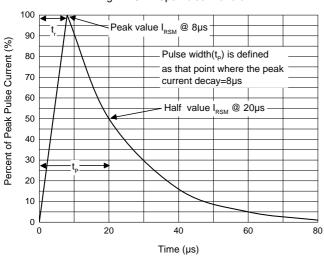


Fig. 1 - 8 X 20µs Pulse Waveform

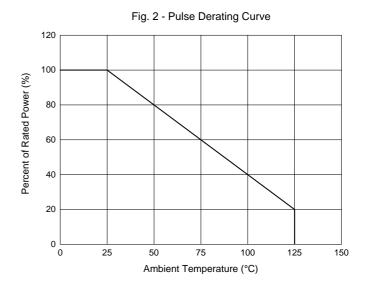


Fig. 3 - Capacitance Characteristics

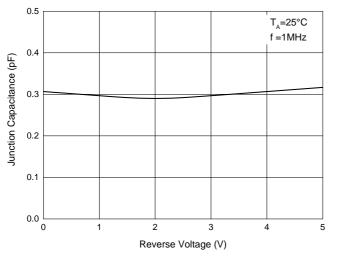
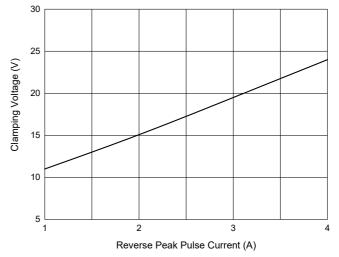


Fig. 4 - Clamping Voltage Characteristics





ESDLC5V0PA6

Ordering Information

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

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