

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

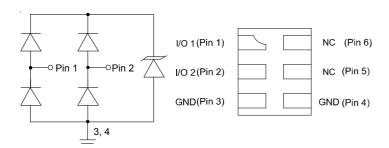
- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C

MCC Part Number	Device Marking
ESDLC0502P6	0522P

IEC61000-4-2(ESD)	Air Contact	±25KV ±20KV
IEC61000-4-4 (EFT) @5/50ns		40A
Peak Pulse Current(8/20µs)	I _{PP}	5A
Peak Pulse Power (8/20µs)	P _{PK}	75W

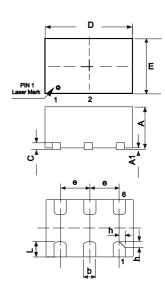
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Circuit and Pin Schematic



ESD Protection Device

DFN1610-6



	DIMENSIONS				
DIM INCI		HES MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.028	0.032	0.70	0.80	
A1	0.000	0.002	0.00	0.05	
b	0.006	0.010	0.17	0.25	
С	0.006	0.010	0.15	0.25	
D	0.061	0.065	1.55	1.65	
Е	0.035	0.043	0.90	1.10	
L	0.008	0.012	0.20	0.30	
е	0.0)20	0.	50	TYP.
h	0.003	0.005	0.08	0.12	·

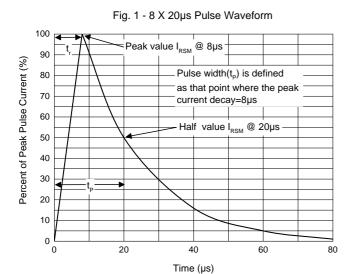


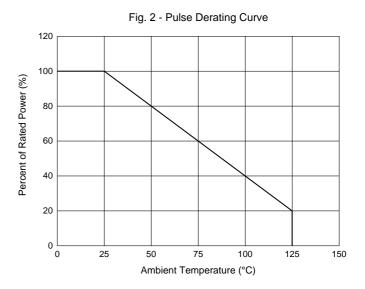
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

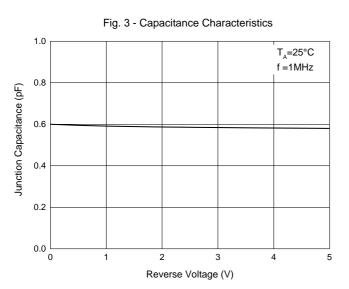
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	I _T = 1mA	6			V
Reverse Leakage Current	I _R	V _{RWM} =5V			0.5	μA
Clamping Voltage	V _C	I _{PP} =1A, t _P =8/20µs, Any I/O Pin to Ground			10	V
Clamping Voltage	V _C	I _{PP} =5A, t _P =8/20µs, Any I/O Pin to Ground			15	V
Junction Capacitance	CJ	V _R = 0V, f = 1MHz, Any I/O Pin to Ground			0.8	pF

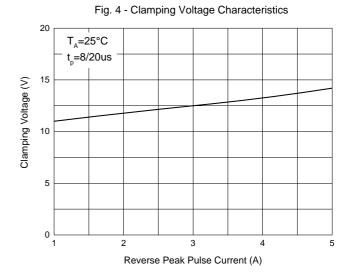


Curve Characteristics











Ordering Information

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

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