

Features

- 6-Pin Leadless Package
- · Up to 2-Line Protects
- · Low Clamping Voltage
- · Low Operating 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

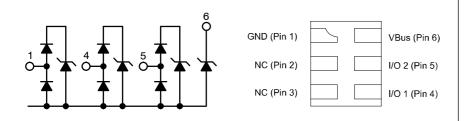
- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C

MCC Part Number	Device Marking
ESDLC0502P2	52P

IEC61000-4-2(ESD)	Air Contact	±30KV ±25KV
IEC61000-4-4 (EFT) @5/50ns		40A
IEC61000-4-5(Surge) @8/20us	I _{PP}	5A
Peak pulse power(tp=8/20us)	P _{PP}	125W

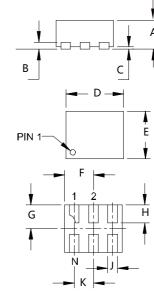
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Pin Schematic



ESD Protection Device





	DIMENSIONS				
DIM	INCHES		MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.020	0.026	0.50	0.65	
В	0.0	0.005		13	TYP.
С	0.000	0.002	0.00	0.05	
D	0.043	0.051	1.10	1.30	
Е	0.035	0.043	0.90	1.10	
F	0.022	0.026	0.55	0.65	
G	0.018	0.022	0.45	0.55	
Н	0.012	0.017	0.30	0.425	
J	0.006	0.010	0.15	0.25	
K	0.	16	0.	40	TYP.

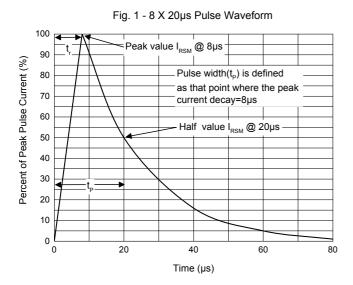


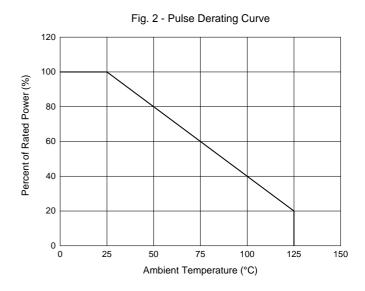
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

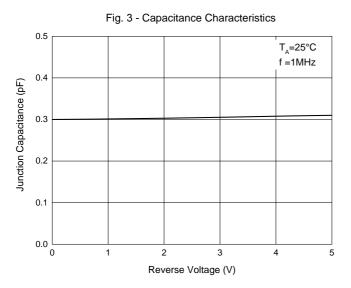
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	$I_T = 1mA$	6			V
Reverse Leakage Current	I _R	V _{RWM} = 5V			0.5	μA
Clamping Voltage	V _C	I _{PP} =1A, t _P =8/20µs, Any I/O Pin to Ground			15	V
Clamping Voltage	V _C	I _{PP} =5A,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

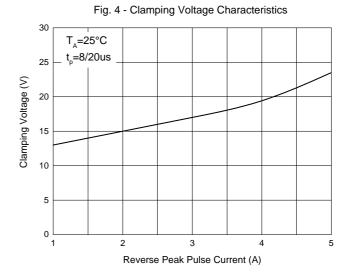


Curve Characteristics











Ordering Information

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

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