

Features

- · Protects One Power Line and Four Data Lines
- · 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

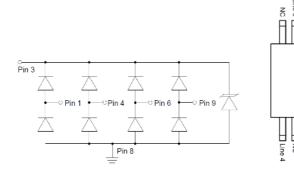
- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C

MCC Part Number	Device Marking
ESDLC0514MP	514M

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

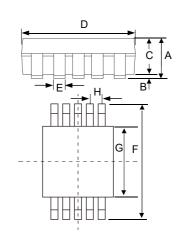
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Circuit and Pin Schematic



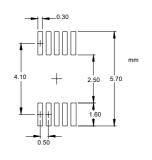
ESD Protection Device

MSOP-10



DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α		0.043		1.10		
В	0.000	0.006	0.00	0.15		
C	0.030	0.037	0.75	0.95		
D	0.114	0.122	2.90	3.10		
Е	0.007	0.011	0.17	0.27		
F	0.193		4.90		TYP.	
G	0.114	0.122	2.90	3.10		
Η	0.020		0.50		TYP.	

SUGGESTED SOLDER PAD LAYOUT



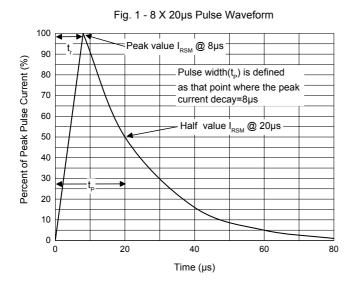


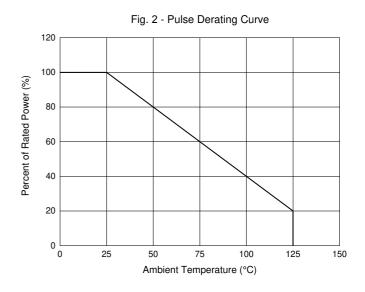
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

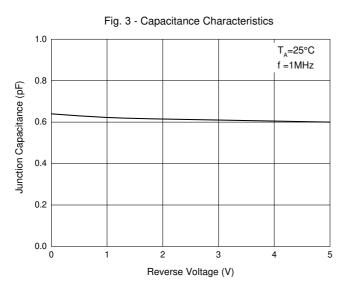
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}	Any I/O Pin to Ground			5	V
Reverse Breakdown Voltage	V_{BR}	I _T = 1mA, Any I/O Pin to Ground	6			V
Reverse Leakage Current	I _R	V _{RWM} =5V, Any I/O Pin to Ground			0.5	μА
Clamping Voltage	V _C	I _{PP} =1A, t _P =8/20µs, Any I/O Pin to Ground			12	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, Between I/O Pins		0.3	0.5	pF
Junction Capacitance	CJ	V _R =0V, f = 1MHz, Any I/O Pin to Ground		0.6	0.8	pF

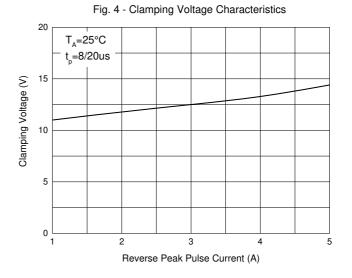


Curve Characteristics











Ordering Information

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

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