

Features

- Low Capacitance for High Speed Interfaces
- · Ultra Low Leakage
- · Low Operating Voltage
- Ultra Low Clamping Voltage
- · Protects Two Lines in Common and Differential Mode
- · Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- · Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

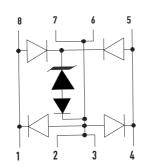
Maximum Ratings

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

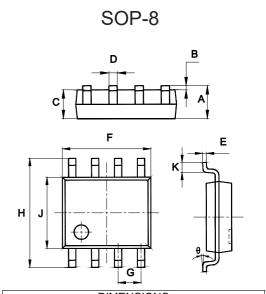
MCC Part Number	Device Marking
LC03-3.3	LC-3.3

IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV
Peak Pulse Current(8/20µs)	I _{PP}	150A
Peak Pulse Power (8/20us)	P _{PK}	7200W

Circuit and Pin Schematic

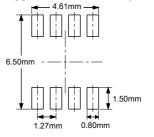


ESD Protection Device



DIMENSIONS						
DIM INCHES		HES	MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.053	0.069	1.35	1.75		
В	0.004	0.010	0.10	0.25		
С	0.053	0.061	1.35	1.55		
D	0.013	0.020	0.33	0.51		
E	0.007	0.010	0.17	0.25		
F	0.185	0.200	4.70	5.10		
G	0.0)50	1.2	270	TYP.	
Н	0.228	0.244	5.80	6.20		
J	0.150	0.157	3.80	4.00		
K	0.016	0.050	0.40	1.27		
θ	0°	8°	0°	8°		

Suggested Solder Pad Layout





Electrical Characteristics @ 25°C (Unless Otherwise Specified)

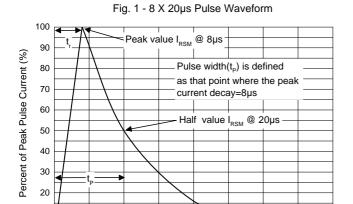
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				3.3	V
Punch-Through Voltage	V _{PT}	I _T =2μA	3.5			V
Snap-Back Voltage	V_{SB}	I _T =50mA	2.8			V
Reverse Leakage Current	I _R	V _{RWM} =3.3V			0.5	μА
Clamping Voltage	V _C	I _{PP} =50A, t _P =8/20μs, Any I/O Pin to Ground			15	V
Clamping Voltage	V _C	I _{PP} =50A, t _P =8/20µs, Between I/O Pins			22	V
Clamping Voltage	V _C	I _{PP} =100A, t _P =8/20μs, Any I/O Pin to Ground			28	V
Clamping Voltage	V _C	I _{PP} =100A, t _P =8/20μs, Between I/O Pins			36	V
Clamping Voltage	V _C	I _{PP} =150A, t _P =8/20μs, Any I/O Pin to Ground			38	V
Clamping Voltage	V _C	I _{PP} =150A, t _P =8/20μs, Between I/O Pins			48	V
Junction Capacitance	С	V _R = 0V, f = 1MHz, Between I/O Pins and Ground		13	16	pF
Junction Capacitance	CJ	V _R = 0V, f = 1MHz, Between I/O Pins		6	9	pF

Note 1: I/O Pins are Pin 1, 4, 5 and 8



Curve Characteristics

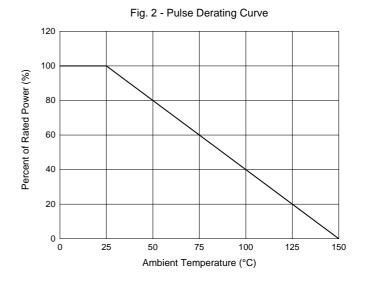
10



Time (µs)

60

20





Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 2.5Kpcs/Reel

Note: Adding "-HF" Suffix for Halogen Free, eg. Part Number-TP-HF

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