

Features

- Protects Four(4) I/O Lines
- · Ultra Low Capacitance
- · Ultra Low Leakage
- · Low Clamping Voltage
- · Fast Response, Response Time Less than 1ns
- · 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

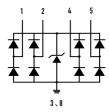
MCC Part Number	Device Marking		
ESDSLC0534DFN10	0534		

IEC61000-4-2(ESD)	Air Contact	±25KV ±20KV
Peak Pulse Current(8/20μs)	I _{PP}	3A
Peak Pulse Power (8/20µs)	P _{PK}	50W

Note:

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

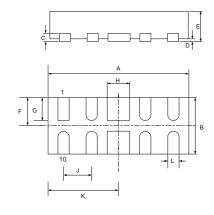
Internal Structure



Pin	Identification	
1,2,4,5	Input lines	
6,7,9,10	Output Lines (No Internal Connection)	
3,8	Ground	

ESD Protection Device

DFN-10



DIMENSIONS					
DIM	INCHES		MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.094	0.102	2.40	2.60	
В	0.035	0.043	0.90	1.10	
С	0.005		0.13		TYP.
D	0.000	0.002	0.00	0.05	
Е	0.020	0.026	0.50	0.65	
F	0.017	0.022	0.45	0.55	
G	0.012	0.017	0.30	0.425	
Н	0.014	0.018	0.35	0.45	
J	.020		0.5		TYP.
K	0.047	0.056	1.20	1.30	
L	0.006	0.010	0.15	0.25	



Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				5	V
Reverse Leakage Current	I _R	V _{RWM} =5V			200	nA
Reverse Breakdown Voltage	V _{BR}	I _T = 1mA	6	7.5	8.5	V
Clamping Voltage ^(Note 2)	V _C	I _{PP} =16A, t _P =100ns		16.5		٧
Dynamic Resistance ^(Note 2)	R _{DYN}			0.68		Ω
Clamping Voltage ^(Note 3) V _C	V	I _{PP} =1A, t _P =8/20μs			9	V
	I _{PP} =3A, t _P =8/20µs			15	V	
Junction Capacitance	C _{I/O-GND}	V _B =0V, f=1MHz		0.4	0.5	pF
Junction Capacitance	C _{I/O-I/O}	V H-0 V, 1-11VII 12		0.2	0.25	pF

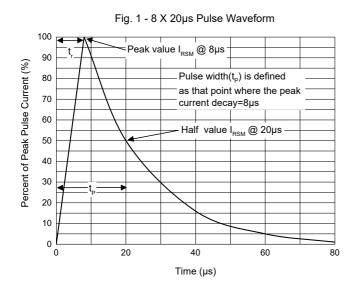
Note:

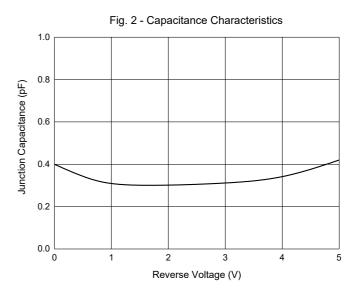
- 2. TLP Parameter: Z_0 =50 Ω , t_p =100ns, t_r =2ns, Averaging Window from 60ns to 80ns. R_{DYN} is Calculated from 4A to 16A.
- 3. Non-repetitive Current Pulse, According to IEC61000-4-5.

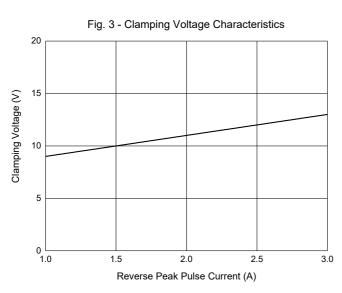
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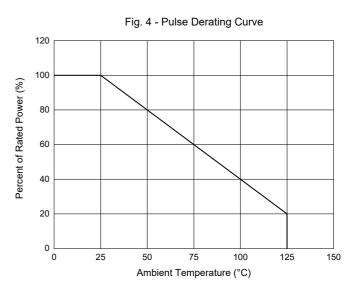


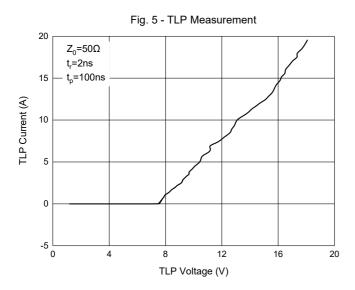
Curve Characteristics

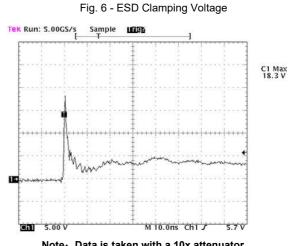












Note: Data is taken with a 10x attenuator 8 kV Contact per IEC61000-4-2



Ordering Information

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

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