

Features

- · Low Operating Voltage
- Low Clamping Voltage
- · Ultra Low Leakage: nA Level
- · 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

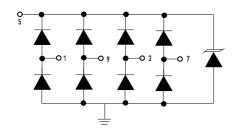
- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C

MCC Part Number	Device Marking
ESDLC3304P8	3304N

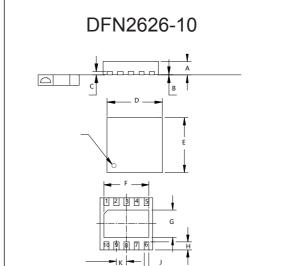
IEC61000-4-2(ESD)	Air Contact	±25KV ±15KV	
IEC61000-4-4 (EFT) @5/50ns		40A	
Peak Pulse Current(8/20µs)	I _{PP}	25A	
Peak Pulse Power (8/20µs)	P _{PK}	450W	

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

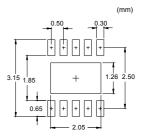


ESD Protection Device



DIMENSIONS					
DIM INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.020	0.024	0.50	0.60	
В	0.000	0.002	0.00	0.05	
С	0.007		0.17		TYP.
D	0.098	0.106	2.50	2.70	
Е	0.098	0.106	2.50	2.70	
F	0.079	0.089	2.00	2.25	
G	0.044	0.054	1.11	1.36	
Н	0.012	0.016	0.30	0.40	
J	0.008	0.012	0.20	0.30	
K	0.020		0.50		TYP.

SUGGESTED SOLDER PAD LAYOUT



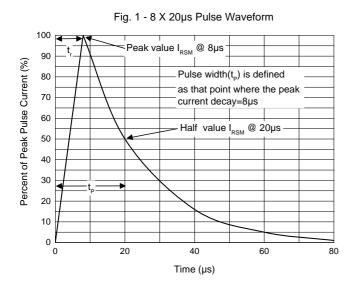


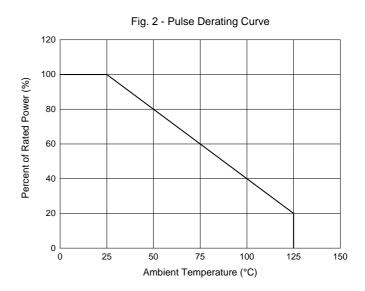
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

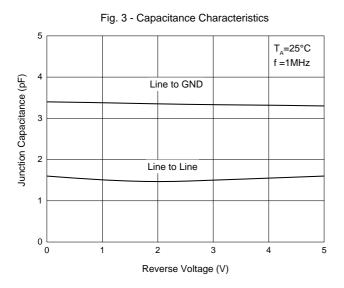
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				3.3	V
Punch-Through Voltage	V_{PT}	I _{PT} =2µA	3.5			V
Snap-Back Voltage	V_{SB}	I _{SB} =50mA	2.8			V
Reverse Leakage Current	I _R	V _{RWM} =3.3V			0.5	μA
Clamping Voltage	V _C	I _{PP} =1A, t _P =8/20μs, Any I/O Pin to Ground			5.5	V
Clamping Voltage	V _C	I _{PP} =10A, t _P =8/20μs, Any I/O Pin to Ground			10.5	V
Clamping Voltage	V _C	I _{PP} =25A, t _P =8/20μs, Any I/O Pin to Ground			18	V
Junction Capacitance	С	V _R = 0V, f = 1MHz, Between I/O Pins		2		pF
Junction Capacitance	CJ	V _R = 0V, f = 1MHz, Any I/O Pin to Ground		3.8	5	pF

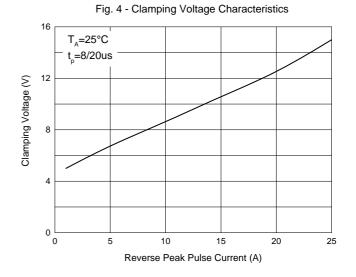


Curve Characteristics











Ordering Information

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

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