

## 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

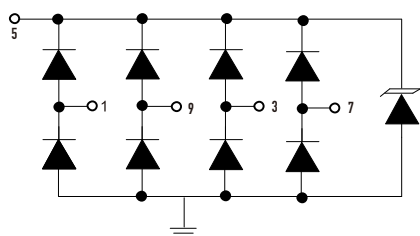
- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C

MCC Part Number	Device Marking
ESDLC3304P8	3304N

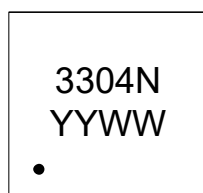
IEC61000-4-2(ESD)	Air Contact	±25KV ±15KV
IEC61000-4-4 (EFT) @5/50ns		40A
Peak Pulse Current(8/20µs)	I <sub>PP</sub>	25A
Peak Pulse Power (8/20µs)	P <sub>PK</sub>	450W

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



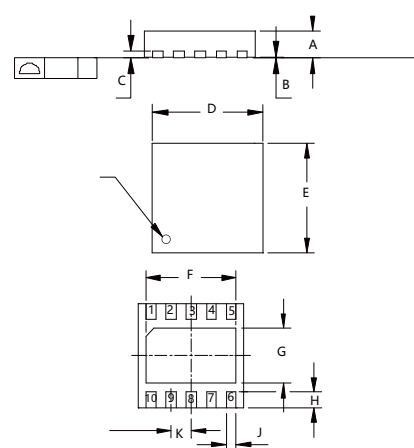
## Device Marking



Device marking code: 3304N  
Date code: YYWW  
Pin1: Dot denotes

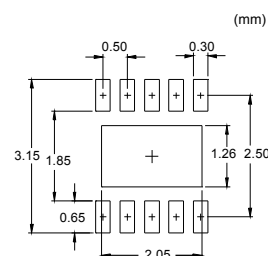
# ESD Protection Device

## DFN2626-10



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.020	0.024	0.50	0.60	
B	0.000	0.002	0.00	0.05	
C	0.007		0.17		TYP.
D	0.098	0.106	2.50	2.70	
E	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	
H	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.	Typ.	Max.	Units
Reverse Working Voltage	$V_{RWM}$				3.3	V
Punch-Through Voltage	$V_{PT}$	$I_{PT}=2\mu A$	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	$\mu A$
Clamping Voltage	$V_C$	$I_{PP}=1A$ , $t_p=8/20\mu s$ , Any I/O Pin to Ground			5.5	V
Clamping Voltage	$V_C$	$I_{PP}=10A$ , $t_p=8/20\mu s$ , Any I/O Pin to Ground			10.5	V
Clamping Voltage	$V_C$	$I_{PP}=25A$ , $t_p=8/20\mu s$ , Any I/O Pin to Ground			18	V
Junction Capacitance	$C_J$	$V_R = 0V$ , $f = 1MHz$ , Between I/O Pins		2		pF
Junction Capacitance	$C_J$	$V_R = 0V$ , $f = 1MHz$ , Any I/O Pin to Ground		3.8	5	pF

## Curve Characteristics

Fig. 1 - 8 X 20 $\mu$ s Pulse Waveform

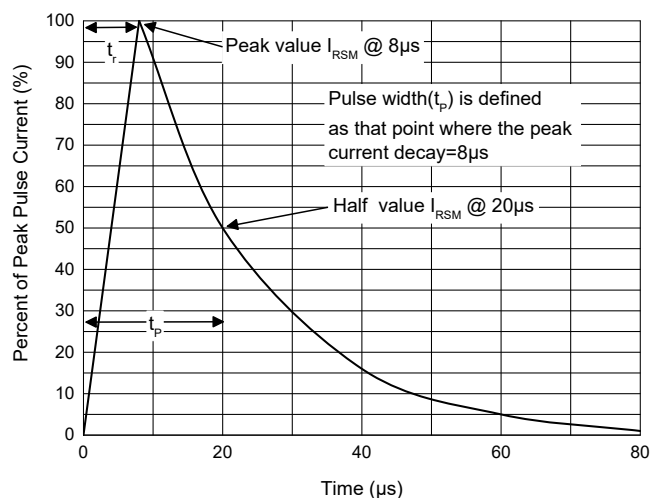


Fig. 2 - Pulse Derating Curve

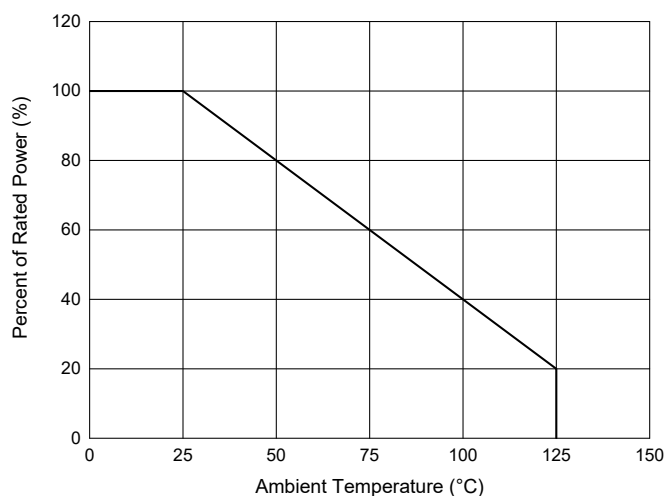


Fig. 3 - Capacitance Characteristics

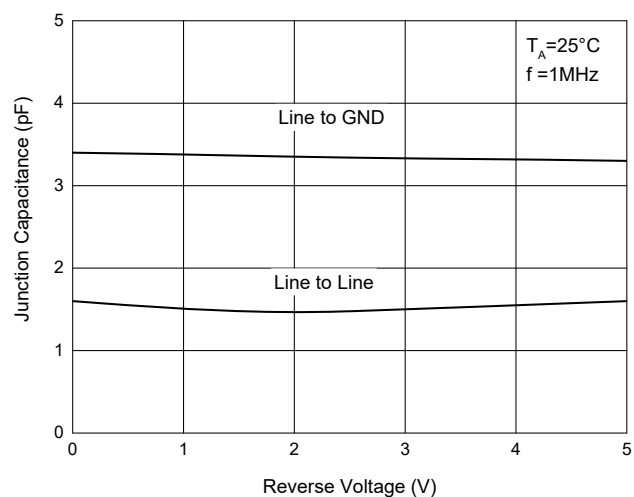
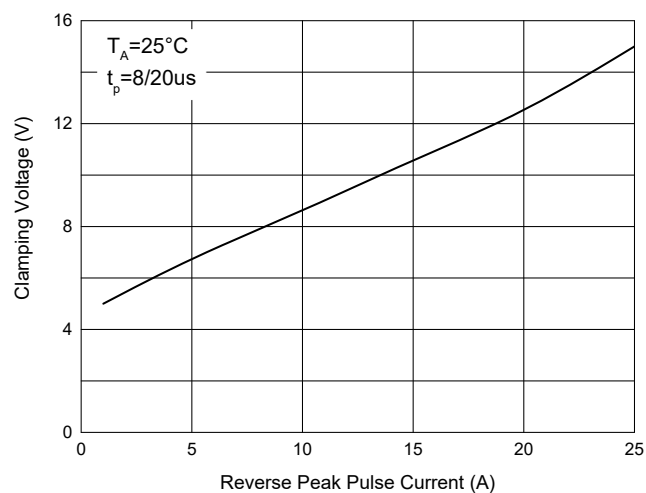


Fig. 4 - Clamping Voltage Characteristics



## Ordering Information

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

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