



Micro Commercial Components
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ESDLC3304P8

Features

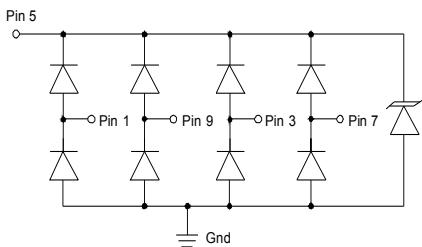
- Low operating voltage: 3.3V
- Low clamping voltage
- Ultra low leakage: nA level
- IEC61000-4-4 (EFT) 40A (5/50ns)
- IEC61000-4-5 (Lightning) 25A (8/20us)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"
- Marking: 3304

Maximum Ratings

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

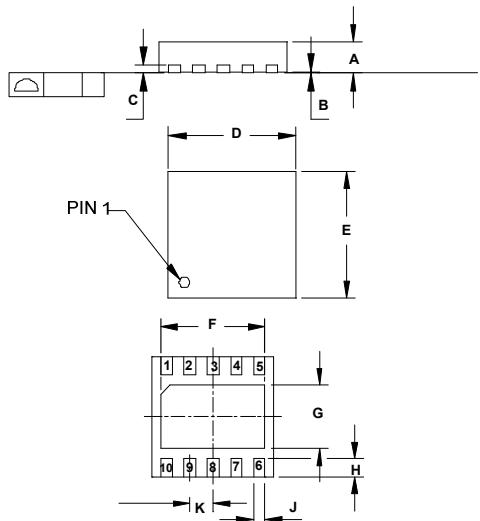
Parameter	Symbol	Limits	unit
IEC61000-4-2(ESD) Contact Air	V_{ESD}	± 15 ± 25	kV
Peak Pulse Power (8/20us)	P_{pk}	450	W
Peak Pulse Current (8/20us)	I_{pp}	25	A

Dimensions and Pin Configuration



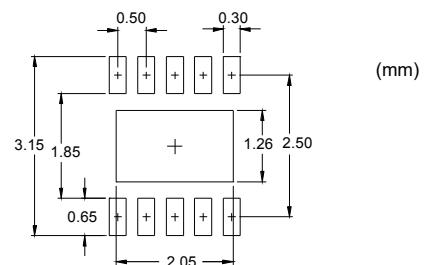
Circuit and Pin Schematic

DFN2626-10



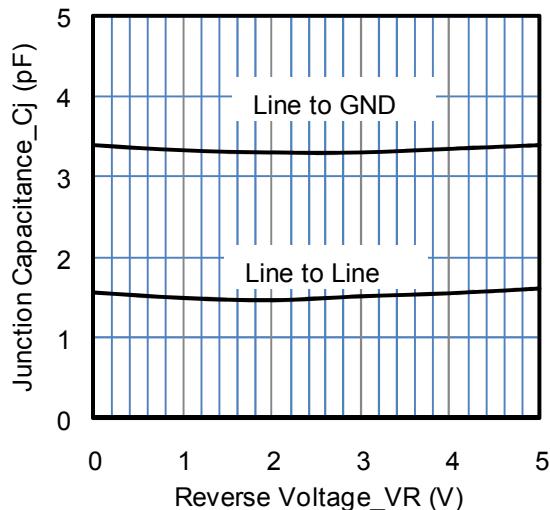
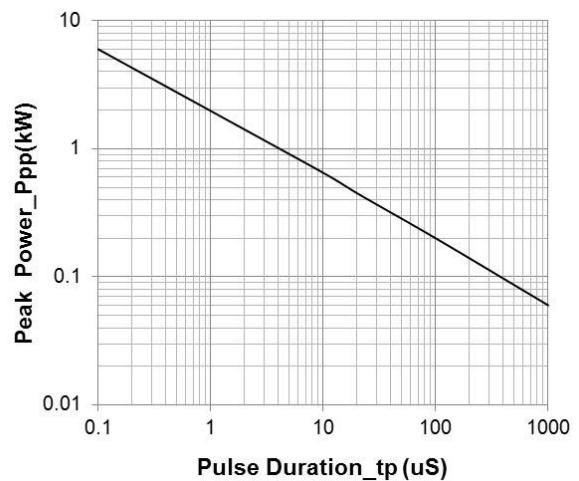
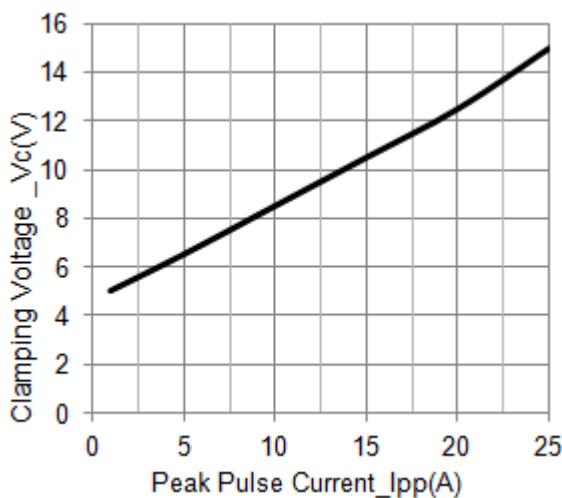
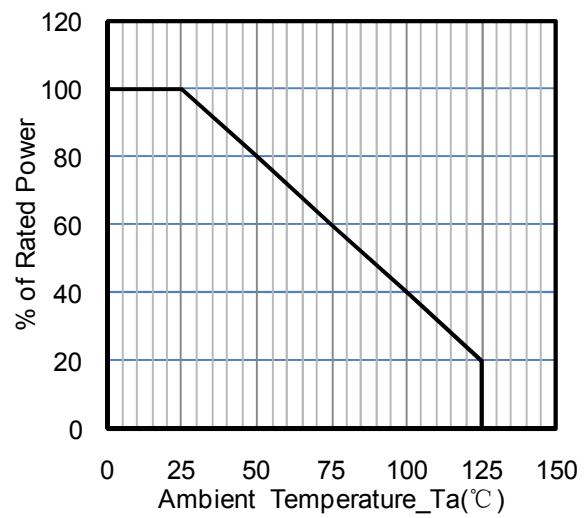
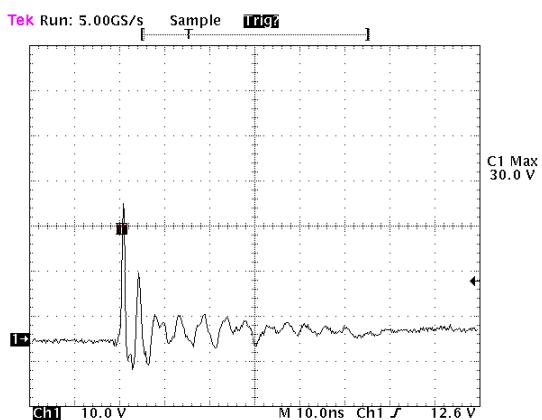
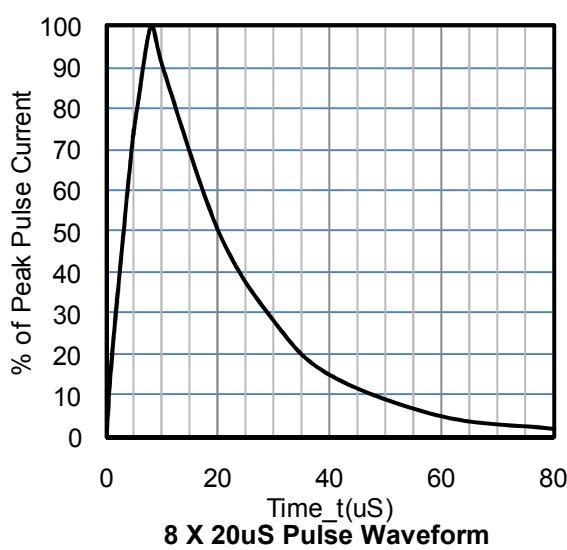
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.020	0.024	0.50	0.60	
B	0.000	0.002	0.00	0.05	
C	0.007		0.17		
D	0.098	0.106	2.50	2.70	
E	0.098	0.106	2.50	2.70	
F	0.079	0.089	2.00	2.25	
G	0.044	0.054	1.11	1.36	
H	0.012	0.016	0.30	0.40	
J	0.008	0.012	0.20	0.30	
K	0.020BSC		0.50BSC		

Suggested Solder Pad Layout



Electrical Characteristics ($T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse Working Voltage	V_{RWM}			3.3	V	
Punch-Through Voltage	V_{PT}	3.5			V	$I_{PT} = 5\mu\text{A}$
Snap-Back Voltage	V_{SB}	2.8			V	$I_{SB} = 50\text{mA}$
Reverse Leakage Current	I_R			0.5	μA	$V_{RWM} = 3.3\text{V}$,
Clamping Voltage	V_C			5.5	V	$I_{PP} = 1\text{A}$ (8 x 20 μs pulse), any I/O to GND
Clamping Voltage	V_C			10.5	V	$I_{PP} = 10\text{A}$ (8 x 20 μs pulse), any I/O to GND
Clamping Voltage	V_C			18	V	$I_{PP} = 25\text{A}$ (8 x 20 μs pulse), any I/O to GND
Junction Capacitance	C_J		2.0		pF	$VR = 0\text{V}$, $f = 1\text{MHz}$, between I/O pins
Junction Capacitance	C_J		3.8	5.0	pF	$VR = 0\text{V}$, $f = 1\text{MHz}$, any I/O to GND

Typical Performance Characteristics ($T_A=25^\circ\text{C}$ unless otherwise Specified)

Junction Capacitance vs. Reverse Voltage

Peak Pulse Power vs. Pulse Time

Clamping Voltage vs. Peak Pulse Current

Power Derating Curve

ESD Clamping Voltage
8 kV Contact per IEC61000-4-2



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Ordering Information :

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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