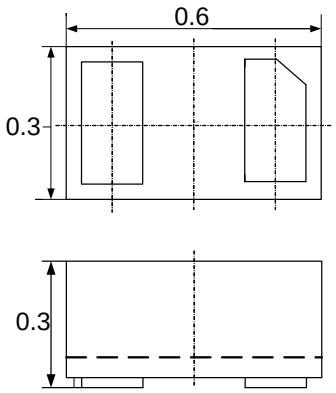
ULC3621CDN

1-Line Low Capacitance Bi-directional TVS Diode

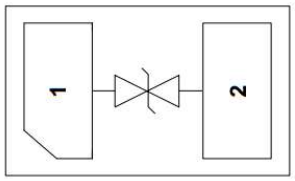
Features

- Ultra low leakage: nA level
- operating voltage: 36V
- Low clamping voltage
- 2-pin leadless package
- Complies with following standards:
- – IEC 61000-4-2 (ESD) immunity test
  Air discharge: ±15kV
  Contact discharge: ±8kV
- RoHS Compliant

Dimensions DFN0603



Pin Configuration



Applications

- USB Ports
- SIM Ports
- Smart Phones
- Wireless Systems
- Set-top box and digital TV
- Digital video interface (DVI)
- Ethernet 10/100/1000 Base T

Mechanical Characteristics

- Package: DFN0603
- UL Flammability Classification Rating 94V-0
- Quantity Per Reel:10,000pcs
- Reel Size:7 inch
- Device Marking: DH

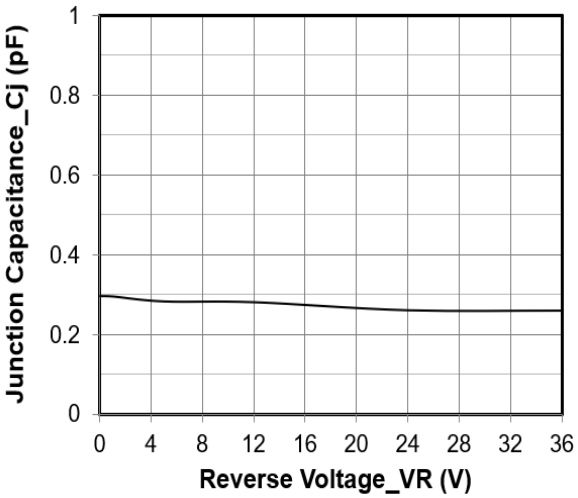
Absolute Maximum Ratings(Tamb=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20μs)	Ppp	50	W
ESD per IEC 61000−4−2 (Air)	V_{ESD}	± 15	kV
ESD per IEC 61000−4−2 (Contact)		± 8	
Operating Temperature Range	T_J	-55 to +125	℃
Storage Temperature Range	T_{STJ}	-55 to +150	℃

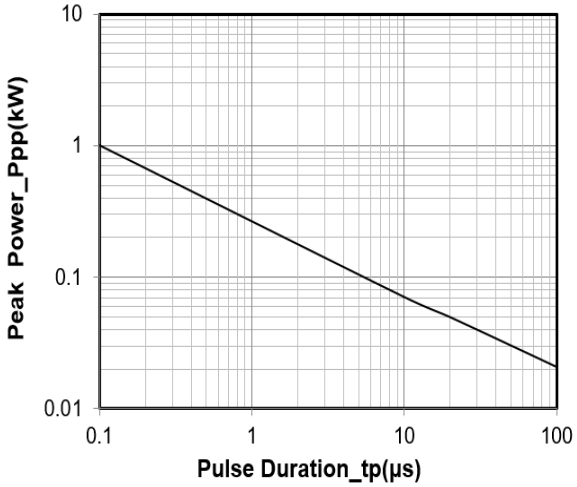
Electrical Characteristics(TA=25°C unless otherwise specified)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Working Voltage	V_{RWM}				36	V
Breakdown Voltage	V_{BR}	I_T = 1mA	37			V
Reverse Leakage Current	I_R	V_{RWM} = 36V			0.5	μA
TLP Clamping Voltage	V_C	Ipp = 4A tp = 0.2/100ns		45		V
TLP Clamping Voltage	V_C	Ipp= 16A tp = 0.2/100ns		72		V
Junction Capacitance	C_J	V_R = 0V, f = 1MHz		0.3		pF

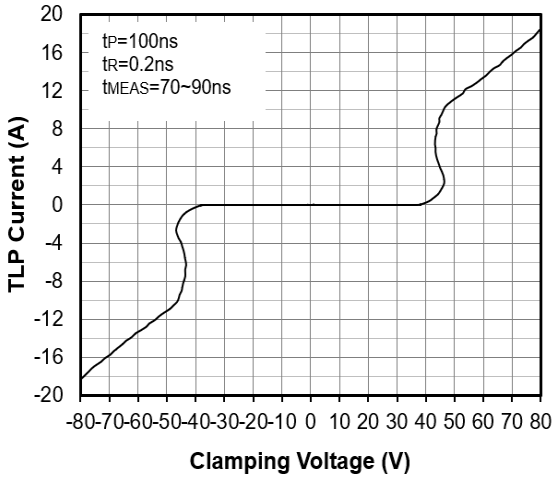
Typical Performance Characteristics(TA=25°C unless otherwise specified)



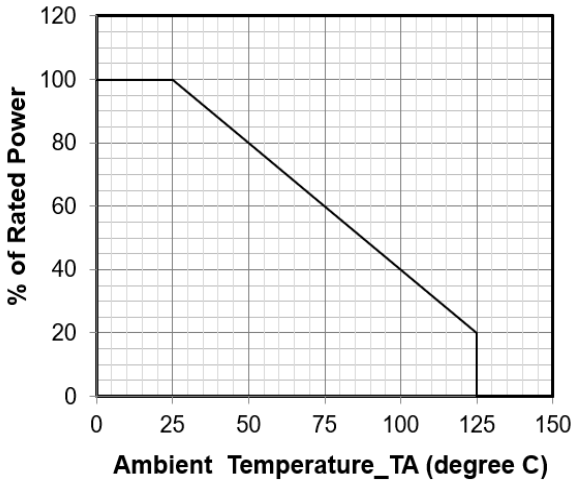
Junction Capacitance vs. Reverse Voltage



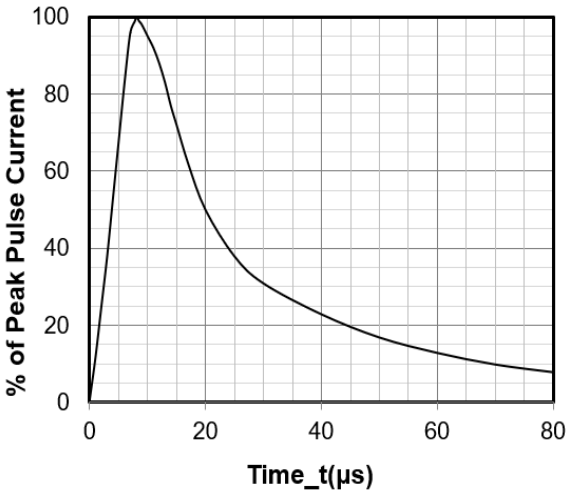
Peak Pulse Power vs. Pulse Time



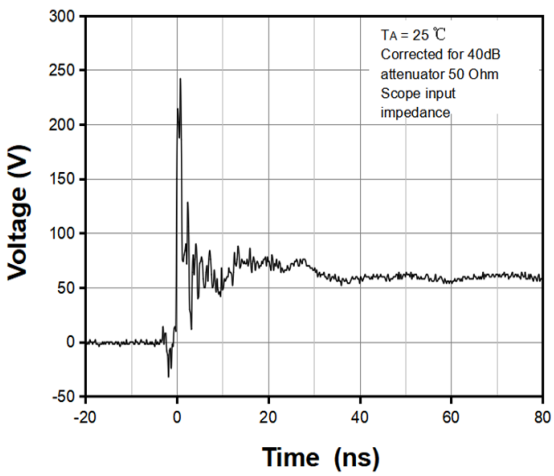
TLP Measurement



Power Derating Curve



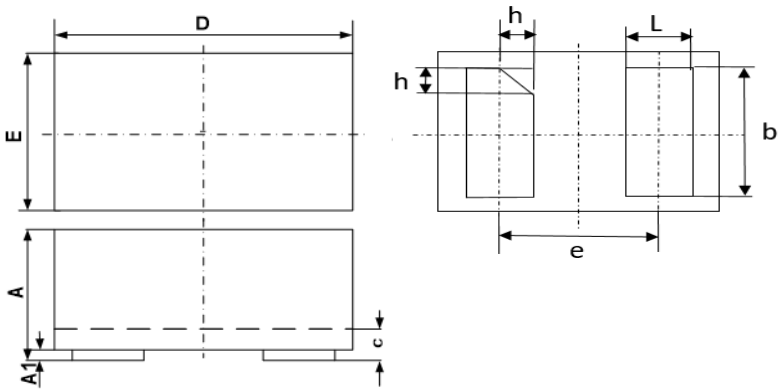
8 X 20μs Pulse Waveform



ESD Clamping Voltage

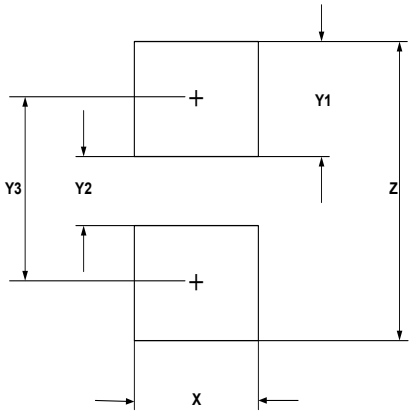
8 kV Contact per IEC61000−4−2

DFN0603 Package Outline Drawing



SYM	DIMENSIONS		
	MILLIMETERS		
	MIN	NOM	MAX
A	0.280	--	0.320
A1	0.000	0.020	0.050
b	0.200	0.245	0.300
c	0.050	0.100	0.150
D	0.550	0.600	0.650
e	0.380 BSC		
E	0.250	0.300	0.350
L	0.130	0.190	0.240
h	0.070 BSC		

Suggested Land Pattern



SYM	DIMENSIONS	
	MILLIMETERS	INCHES
X	0.30	0.012
Y1	0.25	0.010
Y2	0.15	0.006
Y3	0.40	0.016
Z	0.65	0.026

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