

Features

- Low leakage current
- operating voltage: 3.3V
- Low clamping voltage
- 2-pin leadless package
- Complies with following standards:
 - IEC 61000-4-2 (ESD) immunity test
 - Air discharge: $\pm 30\text{kV}$
 - Contact discharge: $\pm 30\text{kV}$
 - IEC61000-4-5 (Lightning) 20A (8/20 μs)
- RoHS Compliant

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

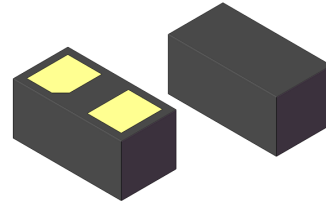
Mechanical Characteristics

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

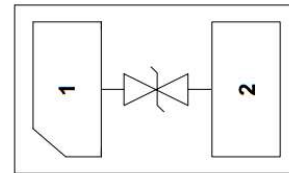
Absolute Maximum Ratings (T_{amb}=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20 μs)	P _{pp}	160	W
ESD per IEC 61000-4-2 (Air)	V _{ESD}	± 30	kV
ESD per IEC 61000-4-2 (Contact)		± 30	
Operating Temperature Range	T _J	-40 to +125	°C
Storage Temperature Range	T _{STJ}	-55 to +150	°C

Dimensions DFN0603



Pin Configuration

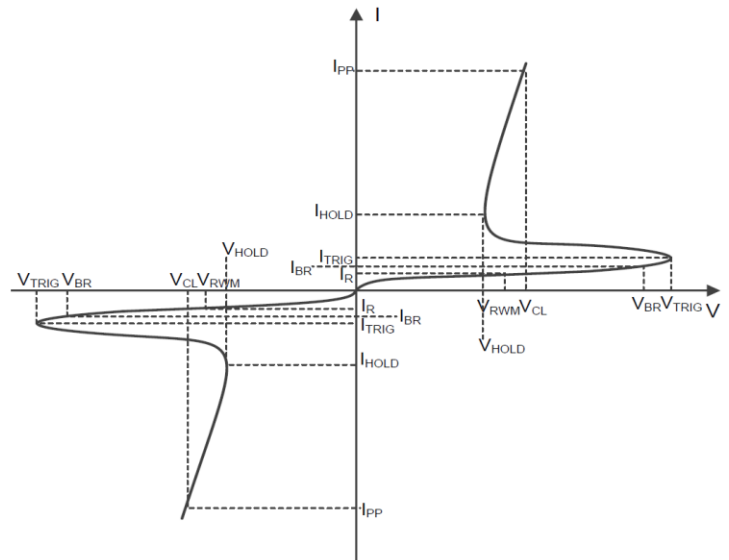


Electrical Characteristics (TA=25°C unless otherwise specified)

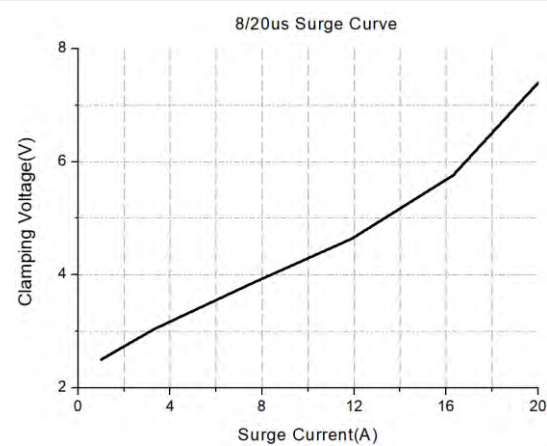
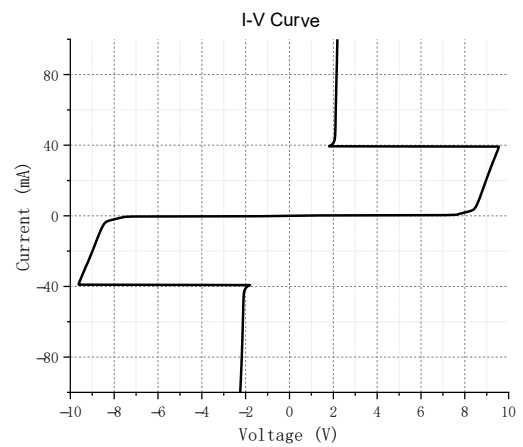
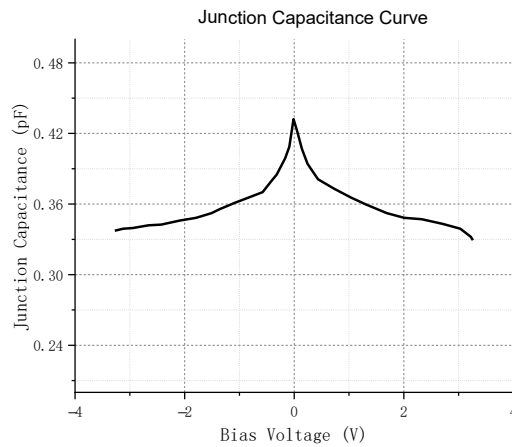
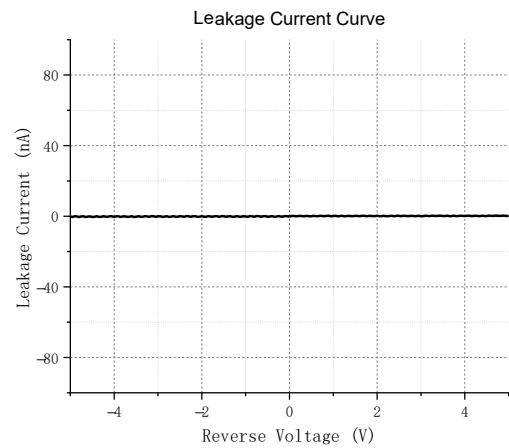
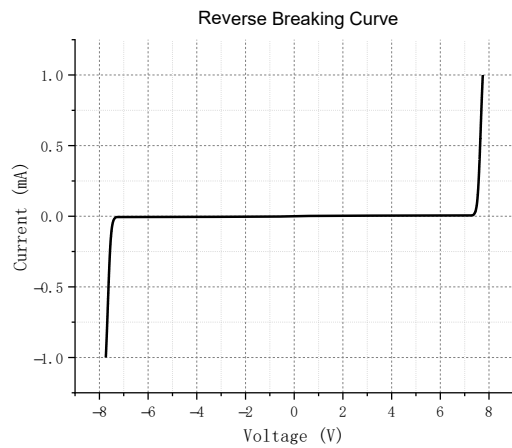
Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Working Voltage	V_{RWM}				3.3	V
Breakdown Voltage	V_{BR}	$I_T = 1\text{mA}$	6.0	7.8		V
Reverse Leakage Current	I_R	$V_{RWM} = 3.3\text{V}$			0.1	μA
Clamping Voltage	V_C	$I_{PP} = 1\text{A}$ (8 x 20 μs pulse)		2.5	3.0	V
Clamping Voltage	V_C	$I_{PP} = 20\text{A}$ (8 x 20 μs pulse)		7.4	8.0	V
Junction Capacitance	C_J	$V_R = 0\text{V}$, $f = 1\text{MHz}$		0.43	0.45	pF

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

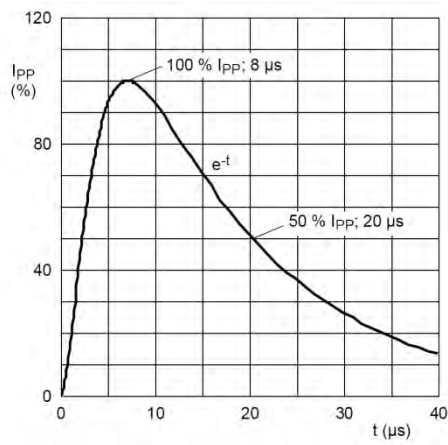
Symbol	Parameters
V_{RWM}	Reverse stand-off voltage
I_R	Reverse leakage current
V_{BR}	Reverse breakdown voltage
I_{BR}	Reverse breakdown current
V_{CL}	Clamping voltage
V_{TRIG}	Reverse trigger voltage
I_{TRIG}	Reverse trigger current
V_{HOLD}	Reverse holding voltage
I_{HOLD}	Reverse holding current
I_{PP}	Peak pulse current



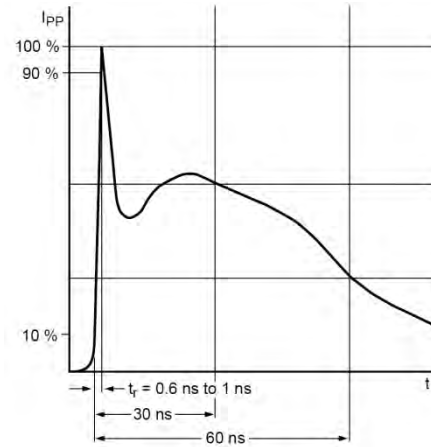
Typical Performance Characteristics(TA=25°C unless otherwise specified)



Measurement Wave According to IEC Standard

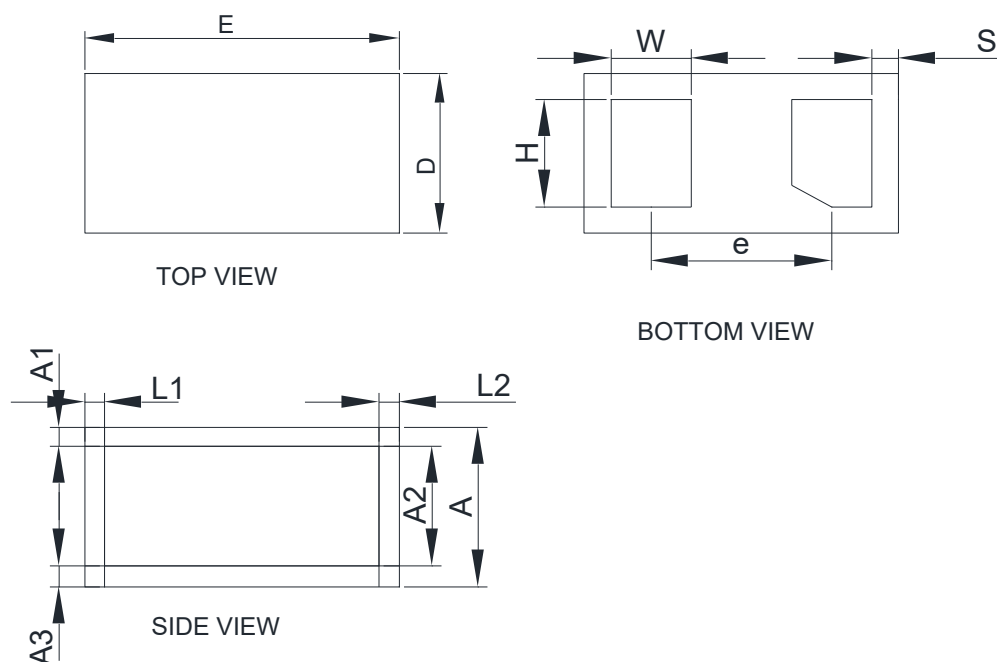


8/20 μs pulse waveform according to
IEC 61000-4-5



ESD pulse waveform according to
IEC 61000-4-2

DFN0603 Package Outline Drawing



COMMON DIMENSIONS CUNITS MEASURE=MILLIMETER							
SYMBOL	MIN	NOM	MAX	SYMBOL	MIN	NOM	MAX
A	0.290	0.315	0.340	W		0.145	
A1	0.020	0.035	0.050	H		0.190	
A2	0.210	0.230	0.250	S		0.052	
A3	0.043	0.050	0.057	e		0.346	
L1	0.010	0.020	0.030	D	0.265	0.295	0.325
L2	0.010	0.020	0.030	E	0.565	0.595	0.625

NOTICE

Leiditech reserves the right to make modifications, enhancements, improvements, corrections or other changes without further notice to any product herein. Leiditech does not assume any liability arising out of the application or use of any product described herein.

Shanghai Leiditech Electronic Technology Co., Ltd.

Email: sale1@leiditech.com

Tel : +86- 021 50828806

Fax : +86- 021 50477059