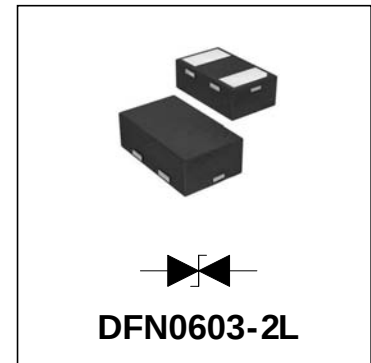


Features

- Protects one I/O or power line
- Low Clamping Voltage
- Ultra Low Capacitance: 10pF
- Working Voltage: ± 5 V
- Low Leakage Current



IEC COMPATIBILITY (EN61000-4)

- IEC 61000-4-2 (ESD) ± 30 kV (air), ± 30 kV (contact)
- IEC 61000-4-4 (EFT) 40 A (5/50 ns)
- IEC 61000-4-5 (Lightning) 5.5 A (8/20 μ s)

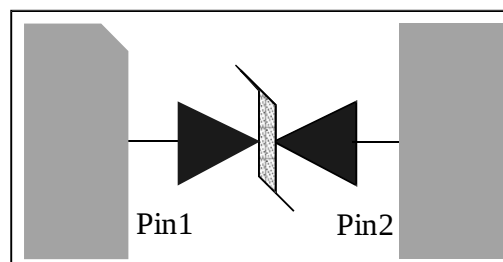
Mechanical Characteristics

- Molding compound flammability rating: UL 94V-0
- Packaging: Tape and Reel per EIA 481
- RoHS/WEEE Compliant

Applications

- Laptop Computers
- Cellular Phones
- Digital Cameras
- Personal Digital Assistants (PDAs)

Schematic & PIN Configuration

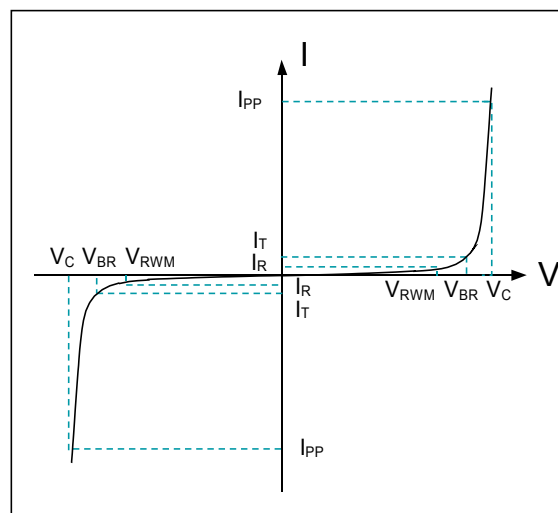


Absolute Maximum Rating

Rating	Symbol	Value	Units
Peak Pulse Power ($t_p = 8/20\mu s$)	P_{pp}	55	Watts
Maximum Peak Pulse Current ($t_p = 8/20\mu s$)	I_{pp}	5.5	A
Electrostatic discharge Voltage (See Note1 ,2)	V_{ESD}	30KV (contact)	Volts
		30KV (air)	
Operating Temperature	T_J	-55 to + 125	
Storage Temperature	T_{STG}	-55 to +150	

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

Symbol	Parameter
I_{PP}	Maximum Reverse Peak Pulse Current
V_C	Clamping Voltage @ I_{PP}
V_{RWM}	Working Peak Reverse Voltage
I_R	Maximum Reverse Leakage Current @ V_{RWM}
V_{BR}	Breakdown Voltage @ I_T
I_T	Test Current



Note: 8/20μs pulse waveform.

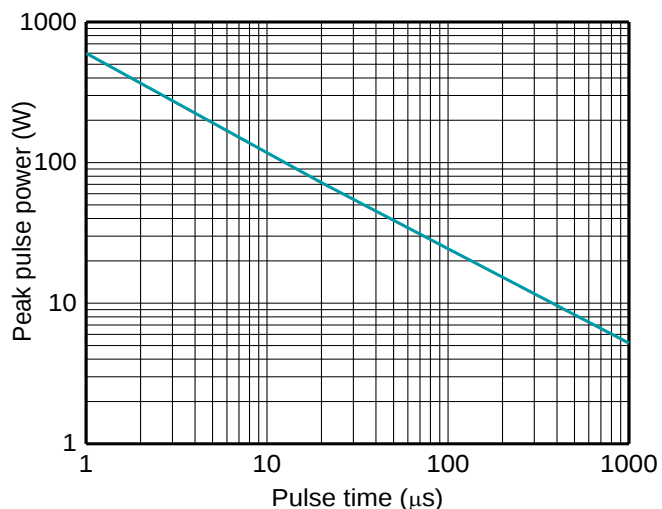
Electrical Characteristics

Parameter	Symbol	Conditions	Minimum	Typical	Maximum	Units
Reverse Stand-Off Voltage	V_{RWM}				5.0	V
Reverse Breakdown Voltage	V_{BR}	$I_T = 1mA$	5.6		8.0	V
Reverse Leakage Current	I_R	$V_{RWM} = 5V, T = 25^\circ C$			0.1	μA
Clamping Voltage	V_C	$I_{PP} = 1A, t_p = 8/20\mu s$			6	V
Clamping Voltage	V_C	$I_{PP} = 5.5A, t_p = 8/20\mu s$			10	V
Junction Capacitance	C_j	$V_R = 0V, f = 1MHz$		10		pF

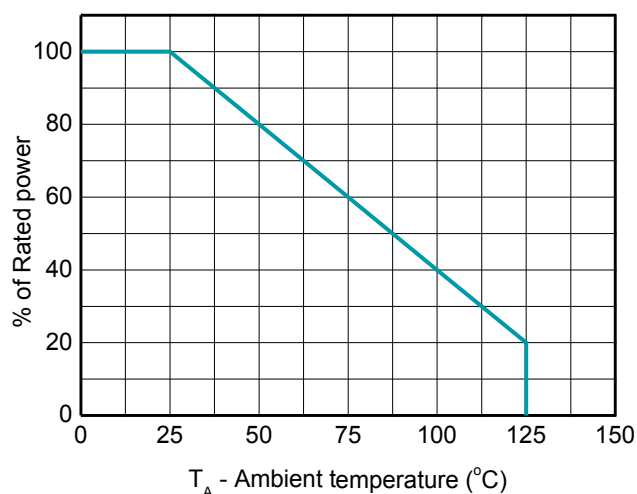
Note1: ESD Pulse Waveform according to IEC 61000-4-2. see Table1 and Figure4.

Note2: ESD tests Setup see Figure 5.

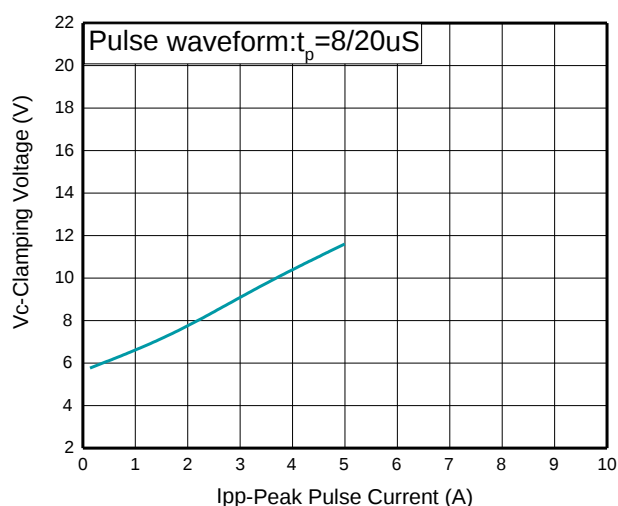
Typical Characteristics



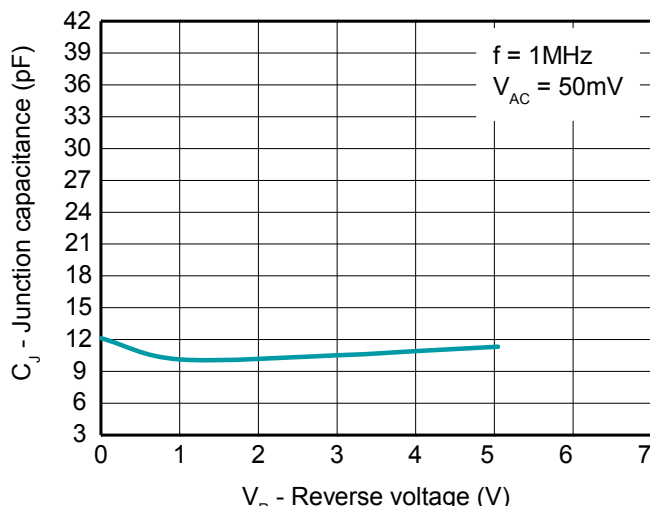
Non-repetitive peak pulse power vs. Pulse time



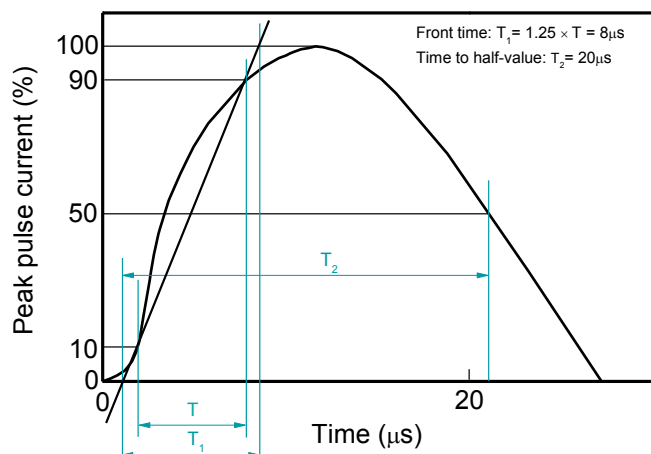
Power derating vs. Ambient temperature



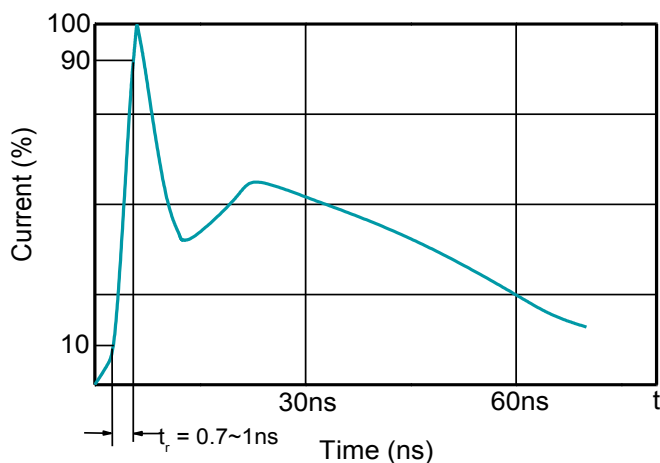
Clamping voltage vs. Peak pulse current



Capacitance vs. Reverse voltage



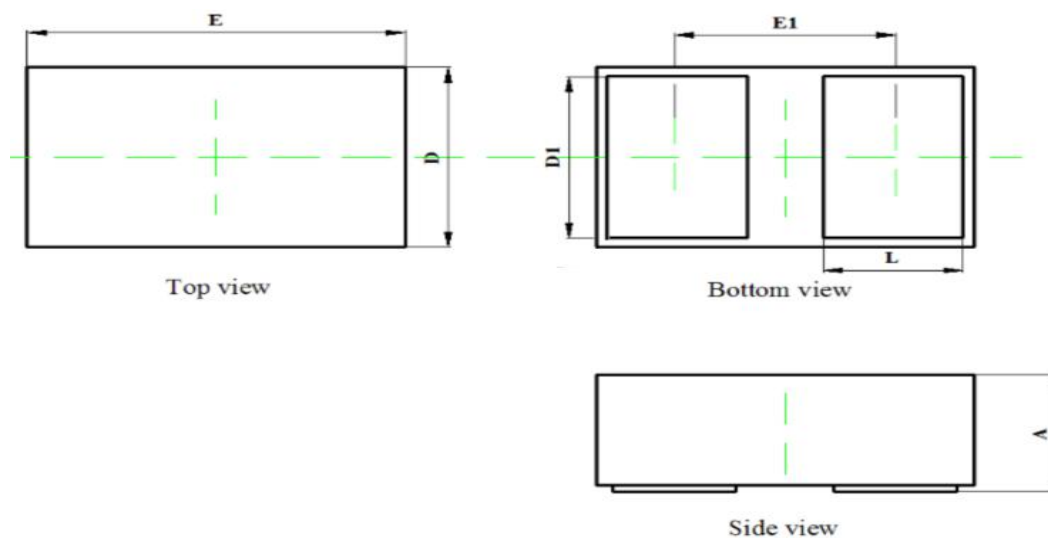
8/20μs waveform per IEC61000-4-5



Contact discharge current waveform per IEC61000-4-2

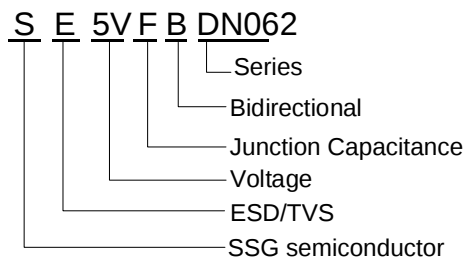
Package Outline Dimensions

DFN0603 Package Outline



Symbol	Dimensions In Millimeters		
	Min	Typical	Max
A	0.26	0.32	0.35
D	0.25	0.30	0.35
E	0.55	0.60	0.65
D1	0.20	0.25	0.30
E1		0.35	
L	0.13	0.18	0.23

Part Numbering System



Device	Package	Shipping	MarKing	Parameter
SE5VFBDN062	DFN0603-2L	10000/Tape&Reel	A *	A = device code * =date code