

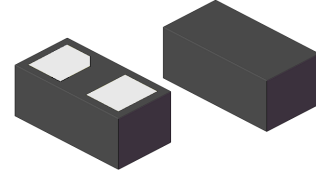
Features

- 40Watts peak pulse power ($t_p = 8/20\mu s$)
- Tiny DFN0603 package
- Bidirectional configurations
- Solid-state silicon-avalanche technology
- Low clamping voltage
- Low leakage current
- Low capacitance ($C_j=2.7pF$ typ.)
- Protection one data/power line to:
 - IEC 61000-4-2 $\pm 10kV$ contact $\pm 15kV$ air
 - IEC 61000-4-4 (EFT) 40A (5/50ns)
 - IEC 61000-4-5 (Lightning) 3.5A (8/20 μs)
- RoHS compliant

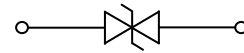
Applications

- Audio Line, Speaker, Headset, Microphone Protection
- Human Interface Devices (Keyboard, Touchpad, Buttons)
- USB2.0 Protection

SESLC5VD0603-2B



DFN0603



Schematic Diagram

Absolute Maximum Ratings

($T_A=25^\circ C$, Unless otherwise specified.)

Parameter	Symbol	Value	Unit
Peak Pulse Power ($T_p=8/20\mu s$)	P_{PP}	40	W
ESD contact/air discharge (IEC-61000-4-2)	V_{ESD}	10/15	kV
Peak Pulse Current ($t_p = 8/20\mu s$)	I_{PP}	3.5	A
Junction Temperature	T_J	-55 to +125	$^\circ C$
Storage temperature	T_{STG}	-55 to +150	$^\circ C$

Electrical Characteristics

($T_A=25^\circ C$, Unless otherwise specified.)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	V_{RWM}				5.0	V
Reverse Breakdown Voltage	V_{BR}	$I_T=1mA$	5.5	6.5		V
Reverse Leakage Current	I_R	$V_R=5.0V$		5	100	nA
Clamping Voltage (IEC 61000-4-5)	V_C	$I_{PP}=3.5A$			11.5	V
Trigger Voltage (IEC 61000-4-2)	V_T	$V_{ESD}=8kV$		80		V
Clamping Voltage (IEC 61000-4-2)	V_C	$V_{ESD}=8kV$		12		V
Junction Capacitance	C_J	$V_R=0V, f=1MHz$		2.7	3.5	pF

Typical Characteristic Curves

Fig.1 Peak Pulse Power Rating Curve

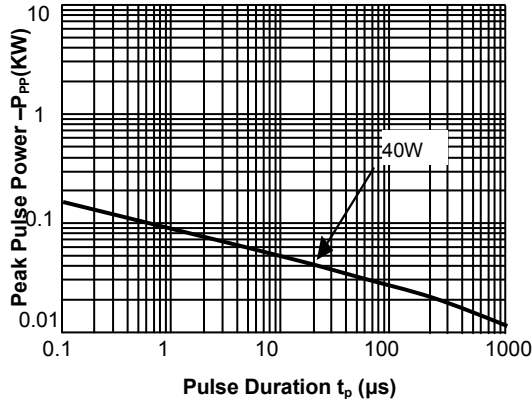


Fig.2 Pulse Derating Curve

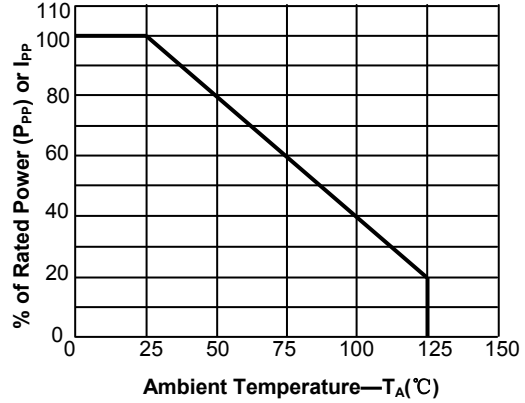


Fig.3 Pulse Waveform-8/20μs

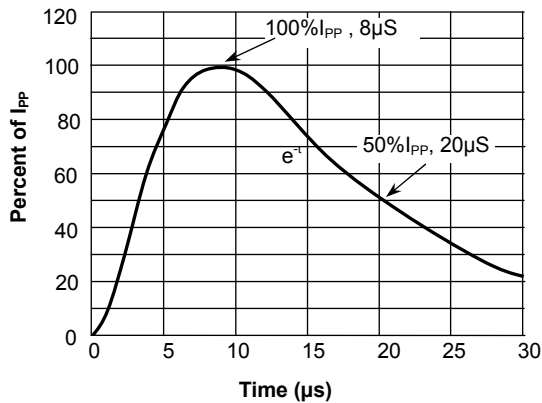
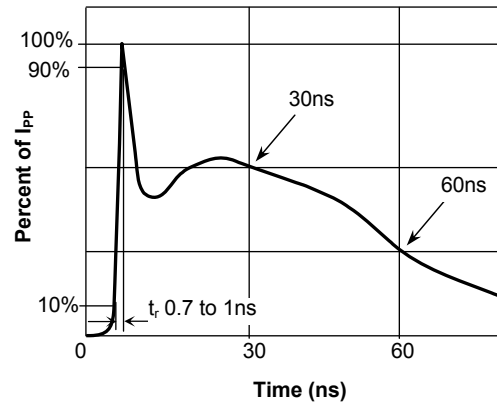
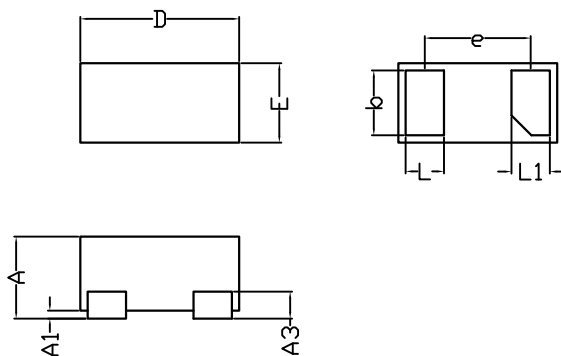


Fig.4 Pulse Waveform-ESD(IEC61000-4-2)



Product Dimensions




Symbol	Dimensions in millimeters		
	Min	Nom	Max
A	0.23	-	0.33
A1	0.00	-	0.05
A3	0.102 REF		
D	0.55	0.60	0.65
E	0.25	0.30	0.35
b	0.215	0.245	0.275
L	0.115	0.145	0.175
L1	0.115	0.145	0.175
e	0.40 BSC		

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