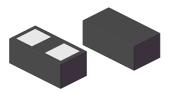




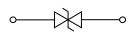
Features

- 70Watts peak pulse power (tp = 8/20µs)
- Tiny DFN0603 package
- Bidirectional configurations
- Solid-state silicon-avalanche technology
- Low clamping voltage
- Low leakage current
- Medium capacitance (CJ=15pF typ.)
- Protection one data/power line to: IEC 61000-4-2 ±30kV contact ±30kV air IEC 61000-4-4 (EFT) 40A (5/50ns)
 IEC 61000-4-5 (Lightning) 6A (8/20µs)
- RoHS compliant

SES5VD0603SY-2B



DFN0603



Applications

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

Schematic Diagram

Absolute Maximum Ratings

(T_A=25 $^\circ\!\mathrm{C}$, Unless otherwise specified.)

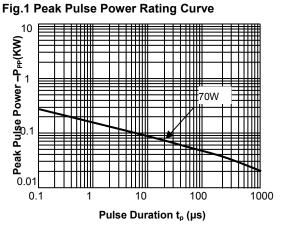
Parameter	Symbol	Value	Unit
Peak Pulse Power (T _P =8/20µS)	P _{PP}	70	W
ESD contact/air discharge (IEC-61000-4-2)	V _{ESD}	30	kV
Peak Pulse Current (t = 8/20µS)	I _{PP}	6	А
Junction Temperature	TJ	-55 to +125	°C
Storage temperature	T _{STG}	-55 to +150	°C

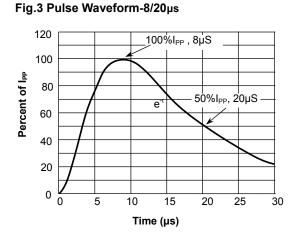
Electrical Characteristics

Parameter	Symbol	Condition	Min	Тур	Max	Unit
Reverse stand-off Voltage	V _{RWM}				5.0	V
Reverse Breakdown Voltage	V _{BR}	I _⊤ =1mA	5.6	6.5		V
Reverse Leakage Current	I _R	V _R =5.0V		5	100	nA
	V _C	I _{PP} =1A		7.8		V
Clamping Voltage (IEC 61000-4-5)		I _{PP} =6A		10.2	12	V
Trigger Voltage (IEC 61000-4-2)	VT	V _{ESD} =8kV		70		V
Clamping Voltage (IEC 61000-4-2)	Vc	V _{ESD} =8kV		10		V
Junction Capacitance	CJ	V _R =0V, f=1MHz		15		pF

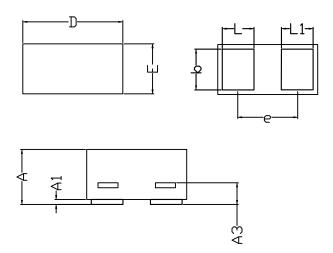


Typical Characteristic Curves





Product Dimensions



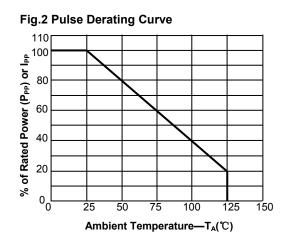
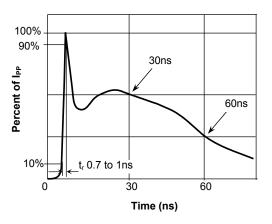


Fig.4 Pulse Waveform-ESD(IEC61000-4-2)



Symphol	Dimensions in millimeters			
Symbol	Min	Nom	Max	
А	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	0.13	0.18	0.23	
L1	0.13	0.18	0.23	
е	0.355 BSC			



Marking



Order Information

Device	Package	Carrier	Quantity	HSF Status
SES5VD0603SY-2B	DFN0603	Tape & Reel	15000pcs / Reel	RoHS compliant

Revision history

Date	Revision	Description of changes
20-October-2020	A2	Update



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