

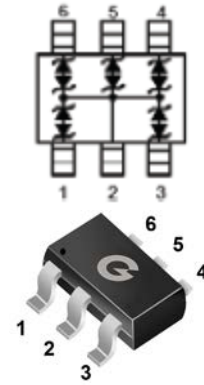
Features

- Transient Protection For Data&Power Lines to IEC 61000-4-2(ESD) 15KV (air),8KV (contact)
- Working Voltage: 5V.
- Low Clamping Voltage.



Mechanical Data

- Case: SOT-23-6L.
- Molding compound, UL flammability classification rating 94V-0.
- Terminals: Tin plated leads, solderable per MIL-STD-202, Method 208.



GESD05CL5-6L

SOT-23-6L

Ordering Information

Part Number	Package	Shipping	Marking Code
GESD05CL5□-6L	SOT-23-6L	3000/Tape&Reel	ZF

□: none is for Lead Free package;
"G" is for Halogen Free package.

Maximum Ratings (@T_A=25°C unless otherwise specified)

Characteristic	Symbol	Value	Units
Peak Pulse Power (tp = 8/20μs)	P _{PK}	80	W
Reverse Stand-off Voltage	V _{RWM}	5	V
ESD according to IEC61000-4-2 Contact	V _{ESD}	±8	KV
ESD according to IEC61000-4-2 Air Discharge	V _{ESD}	±15	KV

Thermal Characteristics

Parameter	Symbol	Value	Units
Junction temperature	T _J	-55 to +125	°C
Storage temperature range	T _{STG}	-55 to +150	°C

Electrical Characteristics (@T_A=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min.	Typ.	Max.	Units
Reverse breakdown voltage	V _{BR}	I _R =1mA	6.2	-	8	V
Reverse leakage current	I _R	V _{RWM} =5V	-	-	1	μA
Clamping voltage	V _C	I _{PP} =4A	-	-	15	V
Maximum Peak Pulse Current	I _{PP}	tp=8/20us	-	-	4	A
Junction capacitance	C _J	V _R =0V, f=1MHZ	-	15	-	pF

Ratings and Characteristic Curves ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

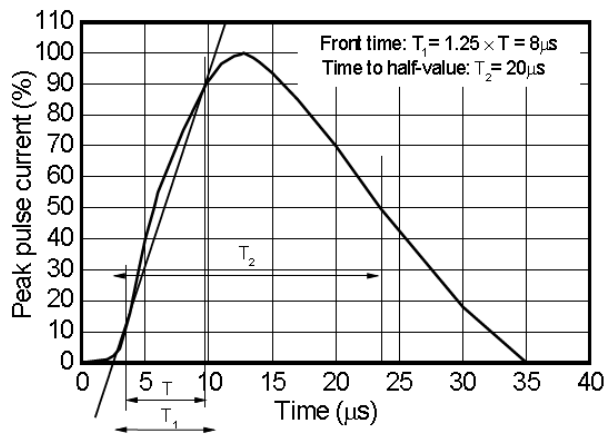


Fig1. 8/20 μs waveform per IEC61000-4-5

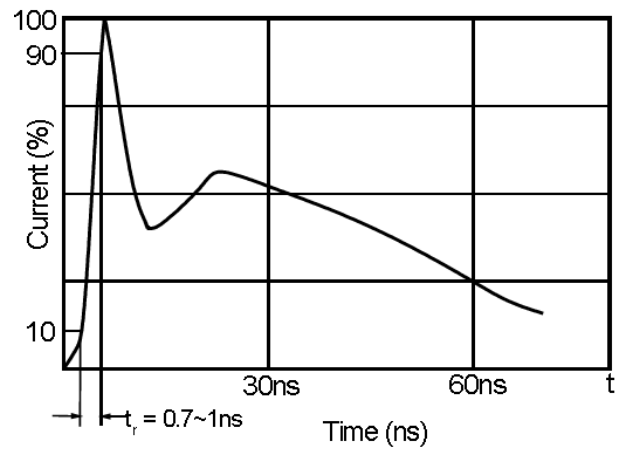
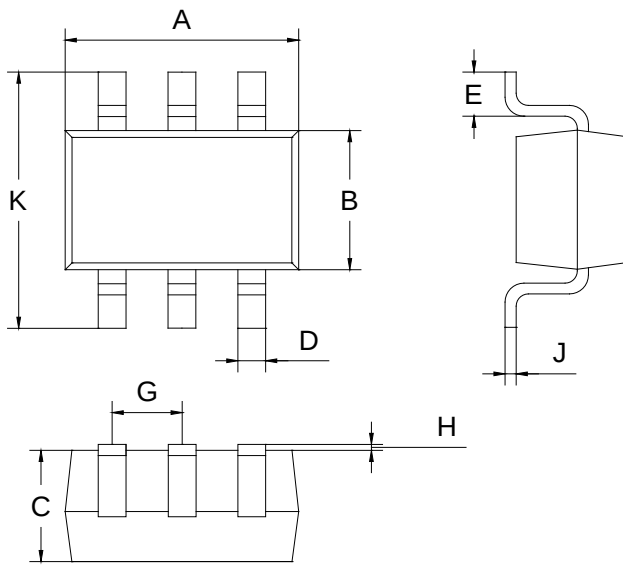


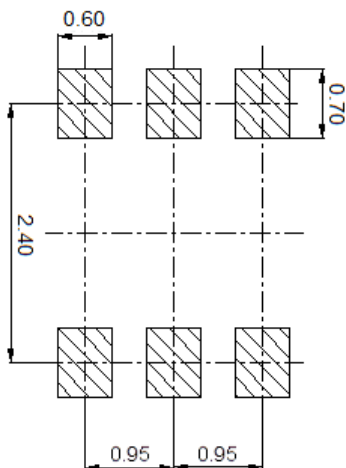
Fig2. ESD pulse waveform according to IEC61000-4-2

Package Outline Dimensions(unit:mm)



SOT-23-6L		
Dim	Min	Max
A	2.80	3.00
B	1.50	1.70
C	1.00	1.20
D	0.35	0.45
E	0.35	0.55
G	0.90	1.00
H	0.02	0.10
J	0.10	0.20
K	2.60	3.00

Mounting Pad Layout(unit:mm)



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