Uni-directional TVS Diode
GESD33VDL

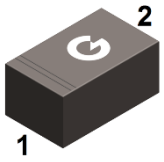
Features

- Low operating voltage
- Ultra low leakage
- Low clamping voltage

HF

Mechanical Data

- Case: DFN1006-2
- Molding Compound: UL Flammability Classification Rating 94V-0
- Terminals: Matte Tin-Plated Leads, Solderability-per MIL-STD-202, Method 208



DFN1006-2

Ordering Information

Part Number	Package	Shipping Quantity	Marking Code
GESD33VDL	DFN1006-2	10000 pcs / Tape & Reel	33

Maximum Ratings (@ T_A = 25℃ unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Power (t_p = 8 / 20μs)	P_{PK}	300	W
Peak Pulse Current (t_p = 8 / 20μs)	I_{PP}	5	A
Reverse Working Voltage	V_{RWM}	33	V
ESD According to IEC61000-4-2 Air	V_{ESD}	±30	KV
ESD According to IEC61000-4-2 Contact Discharge	V_{ESD}	±30	KV

Thermal Characteristics

Parameter	Symbol	Value	Unit
Operating Junction Temperature Range	T_J	-55 to +125	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

Electrical Characteristics (@ T_A = 25℃ unless otherwise specified)

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Unit
V_{BR}	Reverse Breakdown Voltage	I_T = 1mA	35	-	40	V
I_R	Reverse Leakage Current	V_{RWM} = 33V	-	-	500	nA
V_C	Clamping Voltage	I_{PP} = 4A, t_p = 8/20μs	-	-	70	V
C_J	Junction Capacitance	V_R = 0V, f = 1.0MHz	-	-	45	pF

Ratings and Characteristic Curves (@ T_A = 25°C unless otherwise specified)

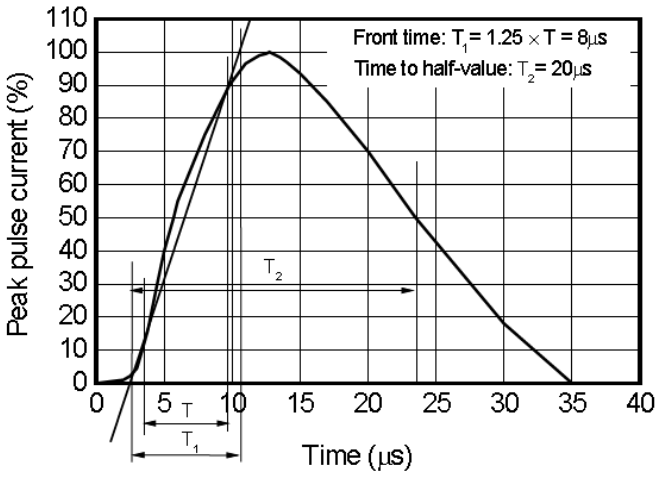


Fig1. 8/20μs waveform per IEC61000-4-5

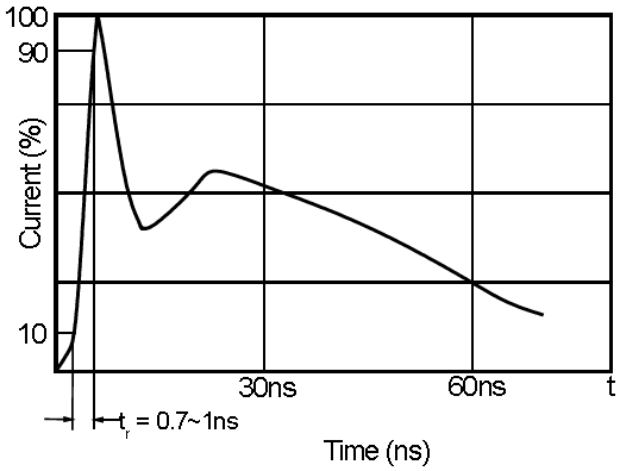


Fig2. ESD pulse waveform according to IEC61000-4-2

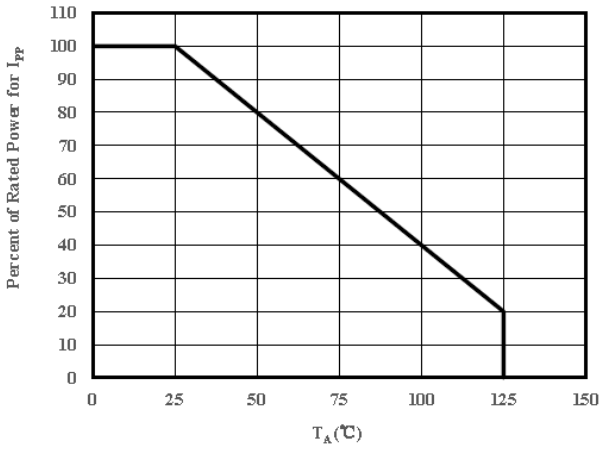
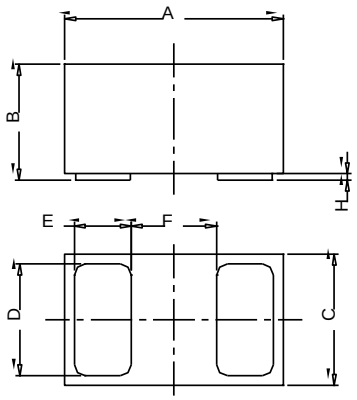


Fig3. Power Derating Curve

Package Outline Dimensions (Unit: mm)



DFN1006-2		
Dimension	**Min.**	**Max.**
A	0.95	1.00
B	0.47	0.50
C	0.55	0.60
D	0.45	0.50
E	0.20	0.25
F	-	0.40
H	0	0.03

Mounting Pad Layout (Unit: mm)

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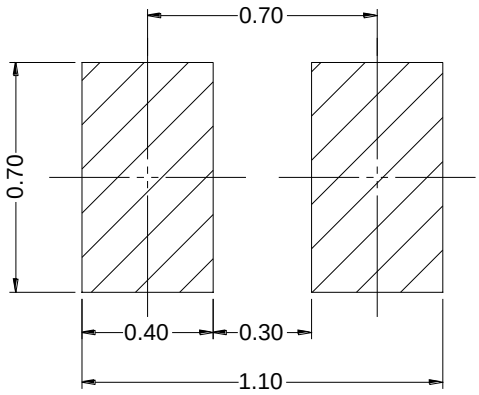

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