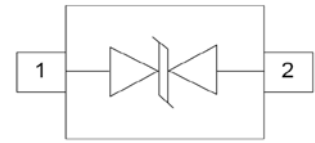


Features

- ESD / transient protection of high speed data lines
 - IEC 61000-4-2 (ESD): $\pm 20\text{kV}$ (air), $\pm 15\text{kV}$ (contact)
- Low reverse stand-off voltage: 15V
- Ultra low leakage
- Ultra low capacitance

HF



DFN1006-2

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

Ordering Information

Part Number	Package	Shipping Quantity	Marking Code
GESD15VX1BL	DFN1006-2	10000 pcs / Tape & Reel	R15

Maximum Ratings (@ $T_A = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Value	Unit
IEC 61000-4-2; ESD (Air) ^{*1}	$V_{\text{ESD-A}}$	± 20	kV
IEC 61000-4-2; ESD (Contact) ^{*1}	$V_{\text{ESD-C}}$	± 15	kV
Peak Pulse Power ($t_p = 8/20\mu\text{s}$) ^{*2}	P_{PP}	90	W
Peak Pulse Current ($t_p = 8/20\mu\text{s}$) ^{*2}	I_{PP}	2.5	A

Thermal Characteristics

Parameter	Symbol	Value	Unit
Junction Temperature	T_J	$-55 \sim +125$	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	$-55 \sim +150$	$^\circ\text{C}$

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

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse Stand-off Voltage	V _{RWM}		-	-	15	V
Reverse Breakdown Voltage	V _(BR)	I _T = 1mA	16.7	-	-	V
Reverse Leakage Current	I _R	V _{RWM} = 15V	-	-	0.2	μA
Clamping Voltage *2	V _C	I _{PP} = 1A, t _p = 8/20μs	-	-	26	V
		I _{PP} = 2.5A, t _p = 8/20μs	-	-	35	V
Junction Capacitance	C _J	V _R = 0V, f = 1MHZ	-	0.3	0.5	pF

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

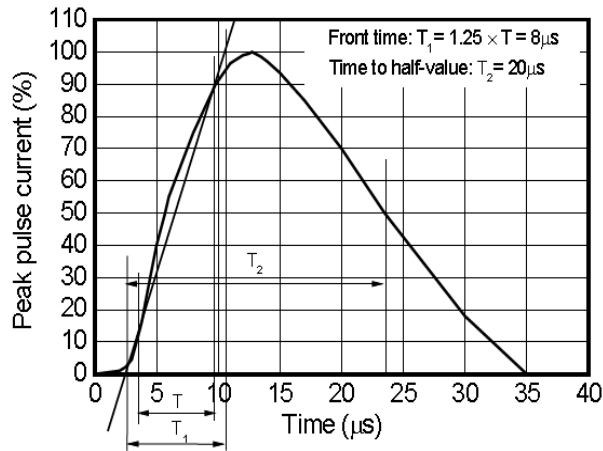


Fig 1 8/20 μs waveform per IEC61000-4-5

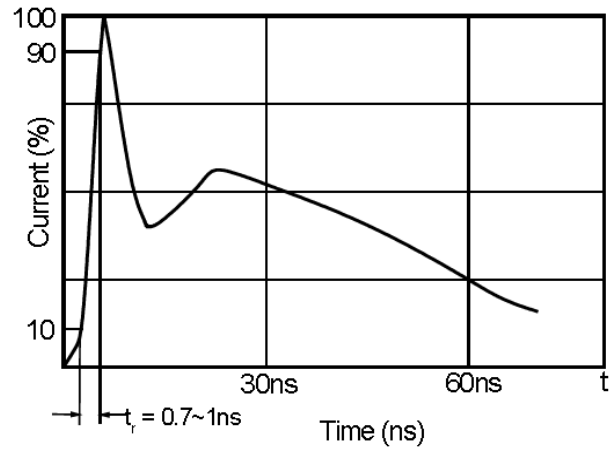


Fig 2 ESD pulse waveform according to IEC61000-4-2

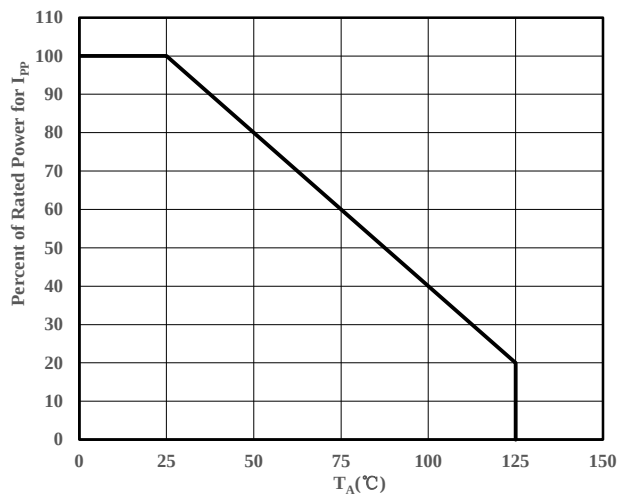


Fig 3 Power Derating Curve

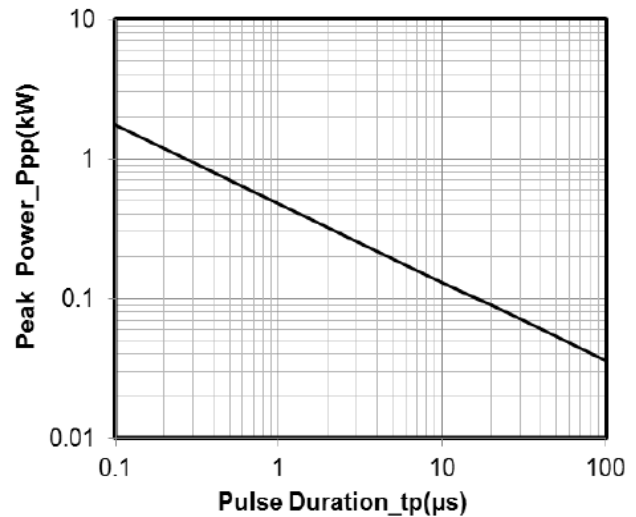


Fig 4 Peak Pulse Power vs. Pulse Time

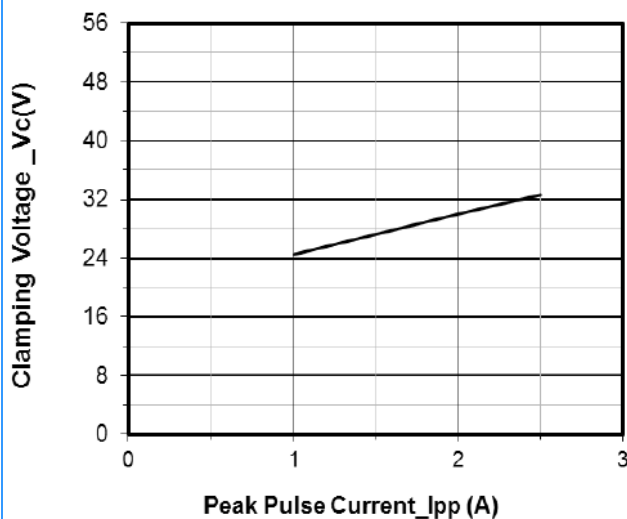


Fig 5 Clamping Voltage vs. Peak Pulse Current

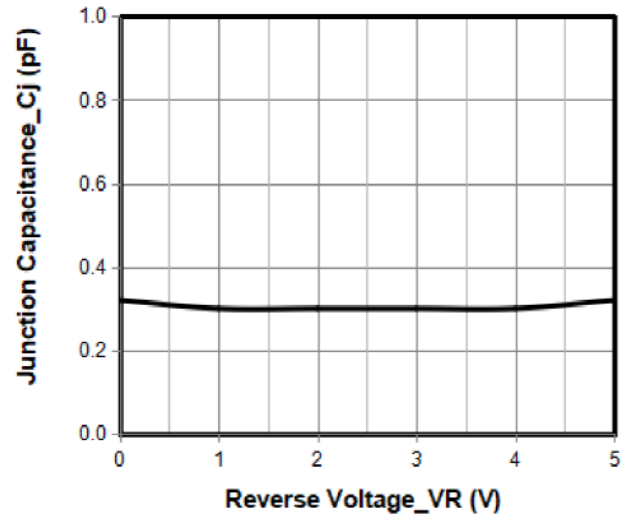
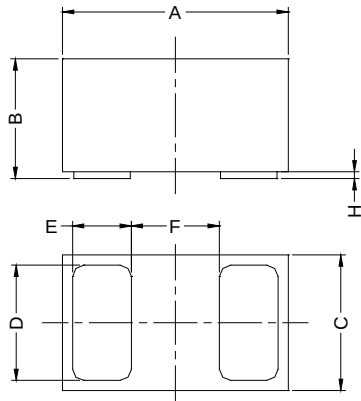


Fig 6 Junction Capacitance vs. Reverse Voltage

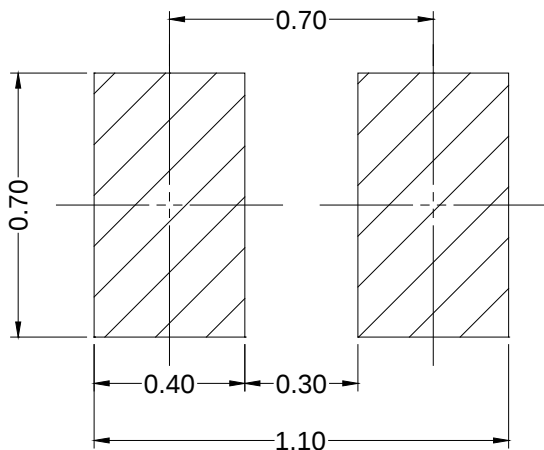
Package Outline Dimensions (Unit: mm)



DFN1006-2			
Dimension	Min.	Typ.	Max.
A	0.95	1.00	1.075
B	0.47	0.50	0.53
C	0.55	0.60	0.675
D	0.45	0.50	0.55
E	0.20	0.25	0.30
F	-	0.40	-
H	0	0.03	0.05

Package Outline Dimensions (Unit: mm)

DFN1006-2



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