

Features

- ESD / transient protection of high speed data lines
 - IEC 61000-4-2 (ESD): ± 23 kV (air), ± 23 kV (contact)
- Working voltage: $V_{RWM} = 24V$
- Low leakage current
- Low clamping voltage

HF



SOD-323

Mechanical Data

- Case: SOD-323
- 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
GESD24VD3	SOD-323	3000 pcs / Tape & Reel	N5

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

Parameter	Symbol	Value	Unit
IEC 61000-4-2; ESD (Air)	V_{ESD-A}	± 23	kV
IEC 61000-4-2; ESD (Contact)	V_{ESD-C}	± 23	kV
Peak Pulse Power ($t_p = 8/20\mu\text{s}$)	P_{PP}	210	W
Peak Pulse Current ($t_p = 8/20\mu\text{s}$)	I_{PP}	3	A

Thermal Characteristics

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

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

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse Stand-off Voltage	V_{RWM}		-	-	24	V
Reverse Breakdown Voltage	$V_{(BR)}$	$I_T = 1\text{mA}$	26.5	-	-	V
Reverse Leakage Current	I_R	$V_{RWM} = 24V$	-	-	50	nA
Clamping Voltage	V_C	$I_{PP} = 1A, t_p = 8/20\mu\text{s}$	-	-	36	V
		$I_{PP} = 3A, t_p = 8/20\mu\text{s}$	-	-	70	V
Junction Capacitance	C_J	$V_R = 0V, f = 1\text{MHz}$	-	-	50	pF

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

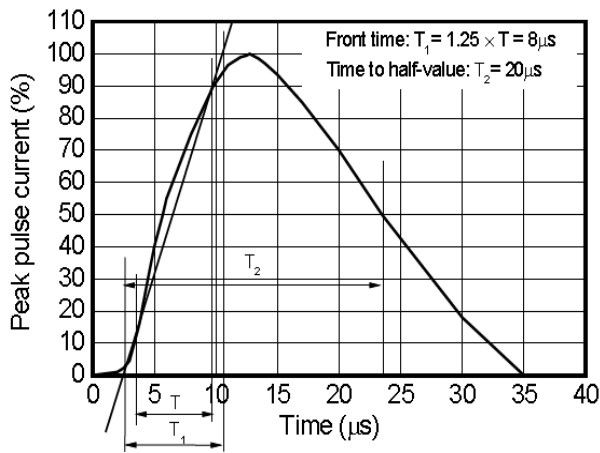


Fig 1 8/20 μs waveform per IEC61000-4-5

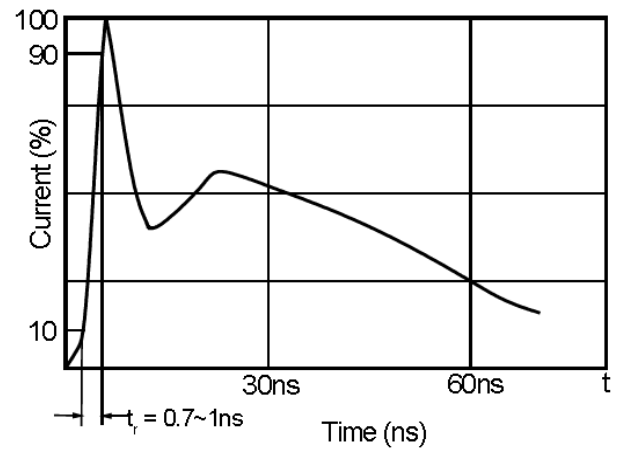


Fig 2 ESD pulse waveform according to IEC61000-4-2

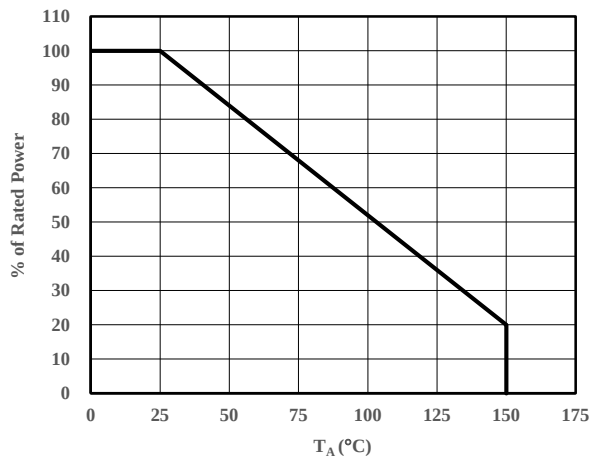
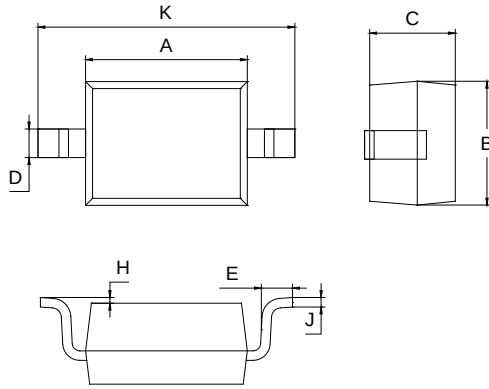


Fig 3 Power Derating Curve

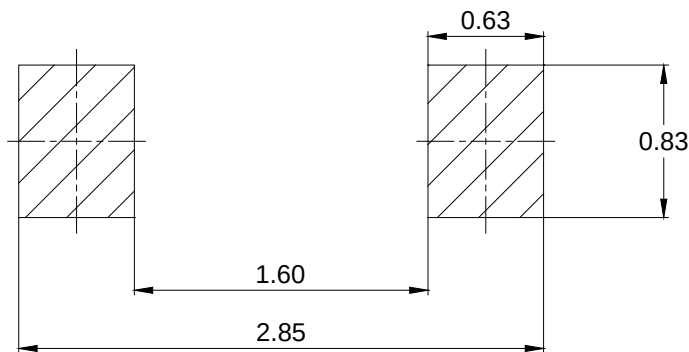
Package Outline Dimensions (Unit: mm)



SOD-323		
Dimension	Min.	Max.
A	1.60	1.80
B	1.20	1.40
C	0.80	0.90
D	0.25	0.35
E	0.22	0.42
H	0.02	0.10
J	0.05	0.15
K	2.55	2.75

Package Outline Dimensions (Unit: mm)

SOD-323



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