

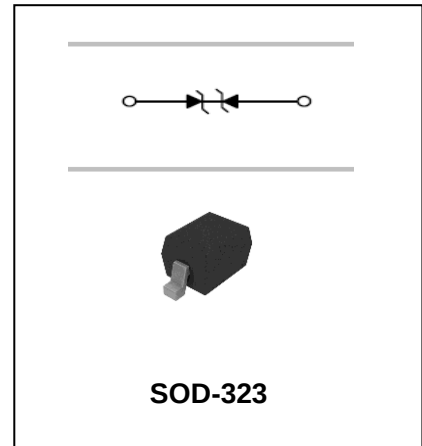
Bi-directional ESD Protection Diode

GESD15VB3

FEATURES

- Suitable replacement for MLV'S ESD protection.
- Low leakage current.
- Low clamping voltage.

HF



APPLICATIONS

- Computers and peripherals.
- Communication systems.
- Audio and video equipment.

ORDERING INFORMATION

Type No.	Marking	Package Code
GESD15VB3	N15	SOD-323

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Parameter	Symbol	Value	Unit
Electrostatic discharge voltage	V_{ESD}	23	kV
Reverse standoff voltage	V_{RWM}	15	V
Peak pulse power dissipation($t_p=8/20\mu s$)	P_{PP}	160	W
Peak pulse current($t_p=8/20\mu s$)	I_{PP}	3	A
ESD (electrostatic discharge capability)	V_{PP}	30	kV
Junction temperature	T_J	-55 to+150	°C
Storage and operating temperature	$T_{STG} T_{amb}$	-65 to+150	°C

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ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Reverse breakdown voltage	V_{BR}	$I_R=1mA$	17.0	18.0	20.0	V
Reverse leakage current	I_R	$V_{RWM}=15V$	-	-	50	nA
Diode capacitance	C_d	$V_R=0V, f=1MHz$	-	17	70	pF
Clamping voltage	$V_{(CL)}$	$I_{PP}=1A$	-	-	23	V
		$I_{PP}=5A$			35	
Differential resistance	R_{diff}	$I_R=1mA$	-	-	225	Ω

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

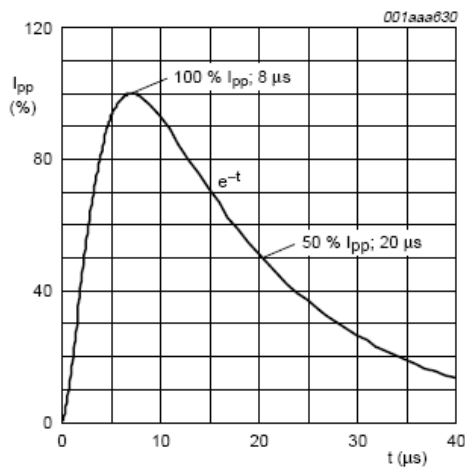


Fig 1. 8/20 us pulse waveform according to IEC 61000-4-5.

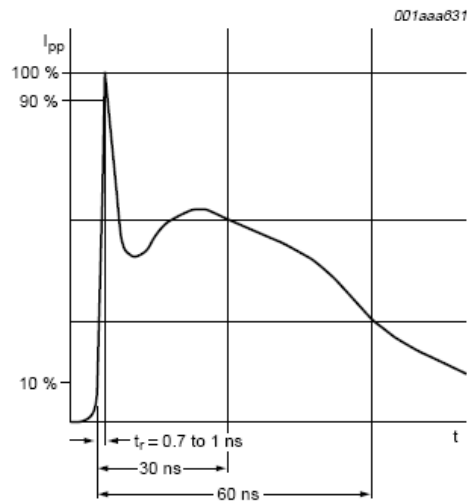


Fig 2. Electro Static Discharge(ESD) pulse waveform according to IEC 61000-4-2.

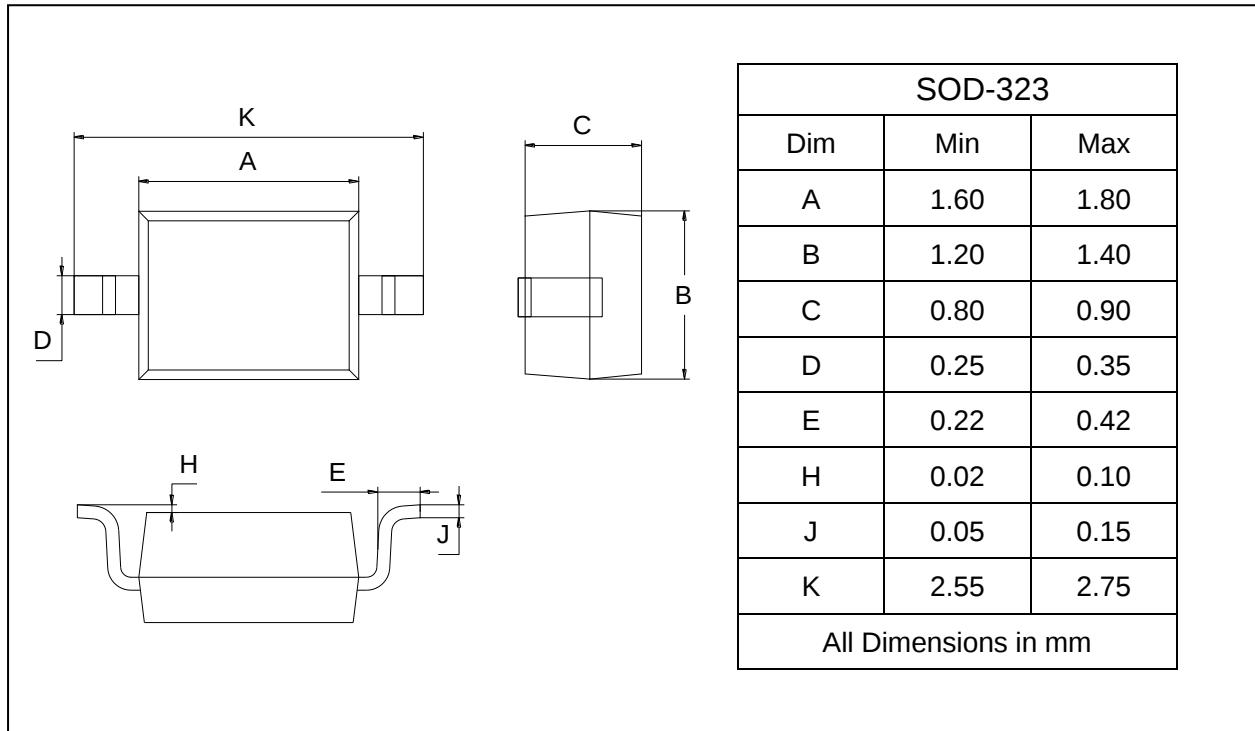
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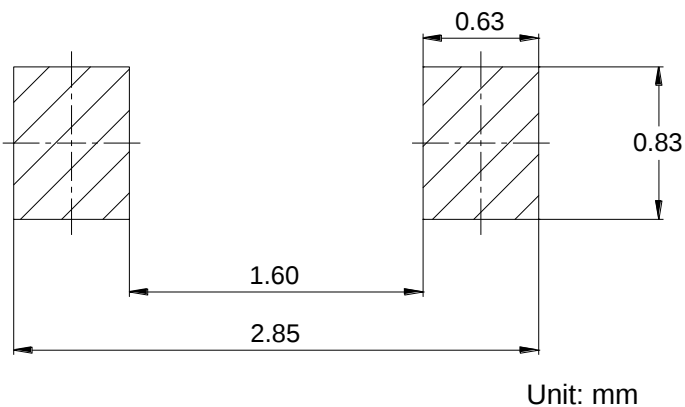
PACKAGE OUTLINE

Plastic surface mounted package

SOD-323



SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
GESD15VB3	SOD-323	3000/Tape&Reel