

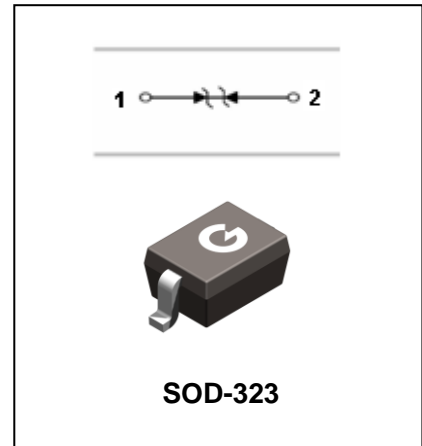
Single Line TVS Diode

GESD3V3B3

FEATURES

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

HF



APPLICATIONS

- Single line TVS diode
- Computers and peripherals
- Communication systems
- Audio and video equipment

ORDERING INFORMATION

Type No.	Marking	Package Code
GESD3V3B3	ZY	SOD-323

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Parameter	Symbol	Limits	Unit
Reverse standoff voltage	V_{RWM}	3.3	V
Peak pulse power dissipation($t_p=8/20\mu s$)	P_{PP}	330	W
Peak pulse current($t_p=8/20\mu s$)	I_{PP}	18	A
ESD (electrostatic discharge capability)	V_{ESD}	30	kV
Junction temperature	T_J	-40 to+150	°C
Storage and operating temperature	T_{STG}	-40 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}	$I_R=5mA$	4.5	5.2	6.0	V
Reverse leakage current	I_R	$V_{RWM}=3.3V$			2	μA
Diode capacitance	C_d	$V_R=0V, f=1MHz$		30	50	pF
Clamping voltage	V_C	$I_{PP}=1A$			7	V
		$I_{PP}=18A$			15	

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

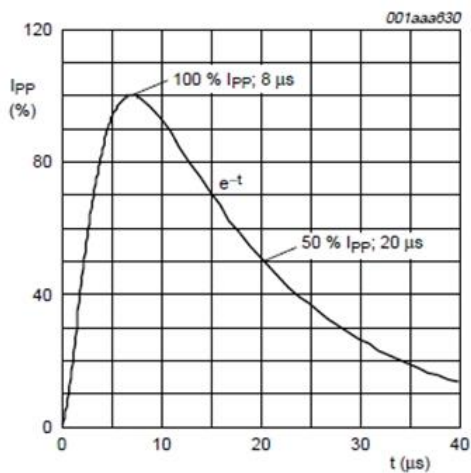


Fig1. 8/20us pulse waveform according to IEC61000-4-5

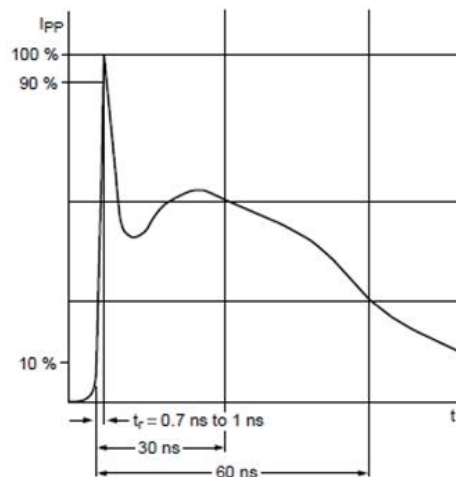


Fig2. ESD pulse waveform according to IEC61000-4-2

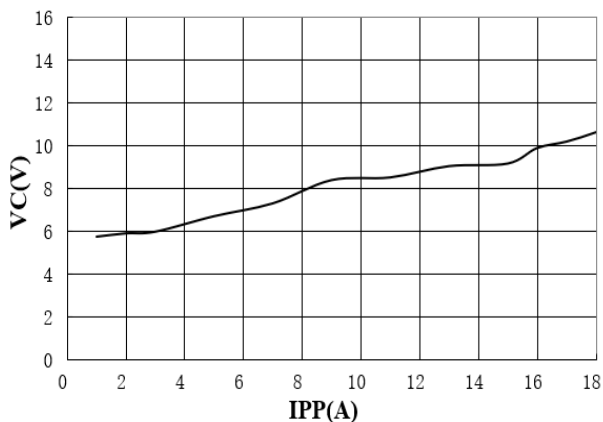


Fig3. IPP VS VC Cure

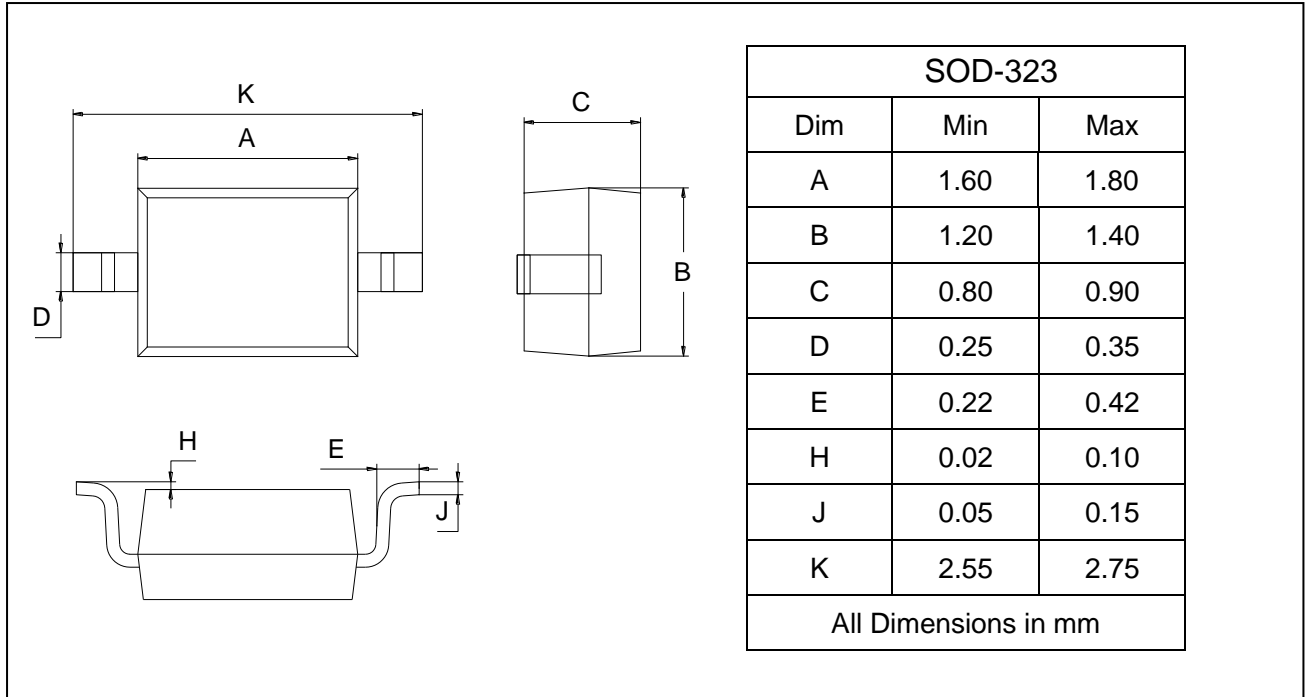
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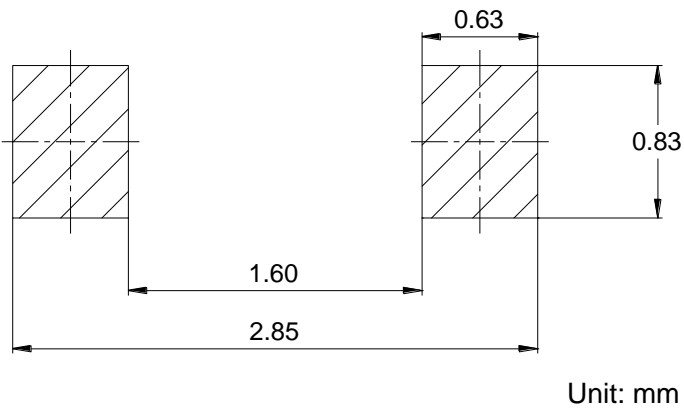
PACKAGE OUTLINE

Plastic surface mounted package

SOD-323



SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
GESD3V3B3	SOD-323	3000 pcs / Tape & Reel