

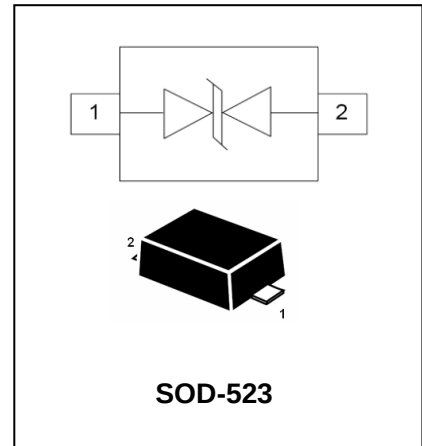
Single Line TVS Diode

GESD15VB5

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
GESD15VB5	N1	SOD-523

MAXIMUM RATING @ Ta=25℃ unless otherwise specified

Parameter	Symbol	Limits	Unit
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}	5	A
ESD (electrostatic discharge capability)	V_{PP}	30	kV
Junction temperature	T_j	150	℃
Storage temperature	T_{STG}	-65 to+150	℃

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ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Reverse breakdown voltage	V_{BR}	$I_R=5mA$	16.7			V
Reverse leakage current	I_R	$V_{RWM}=15V$			100	nA
Diode capacitance	C_d	$V_R=0V, f=1MHz$		18	35	pF
Clamping voltage	$V_{(CL)}$	$I_{PP}=1A$ $I_{PP}=5A$			23 32	V
Differential resistance	R_{diff}	$I_R=1mA$			225	Ω

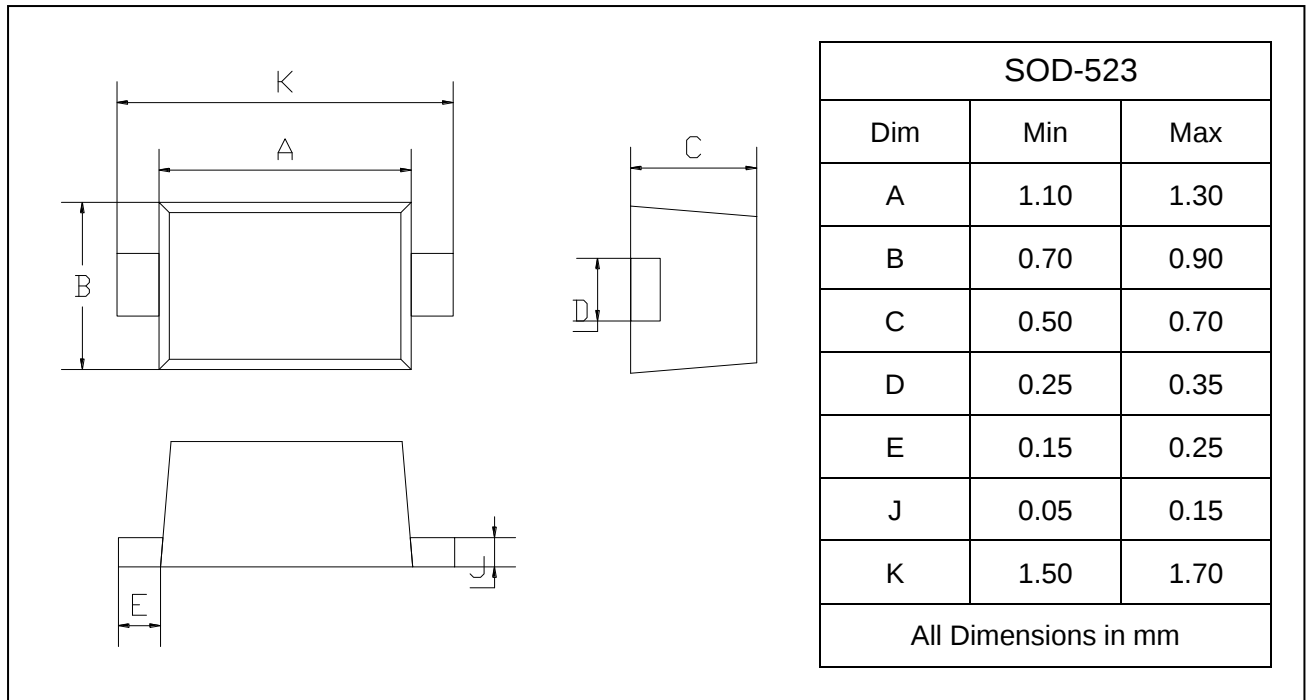
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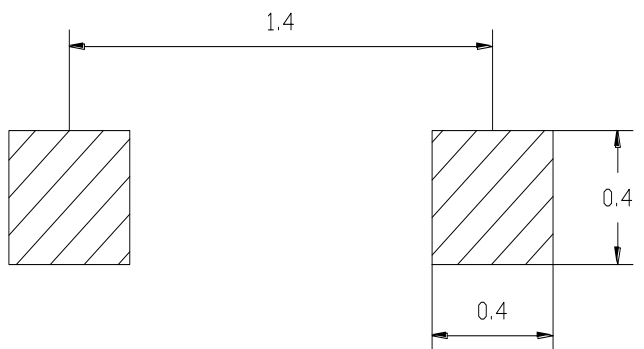
PACKAGE OUTLINE

Plastic surface mounted package

SOD-523



SOLDERING FOOTPRINT



Unit: mm

PACKAGE INFORMATION

Device	Package	Shipping
GESD15VB5	SOD-523	3000pcs / Tape & Reel