

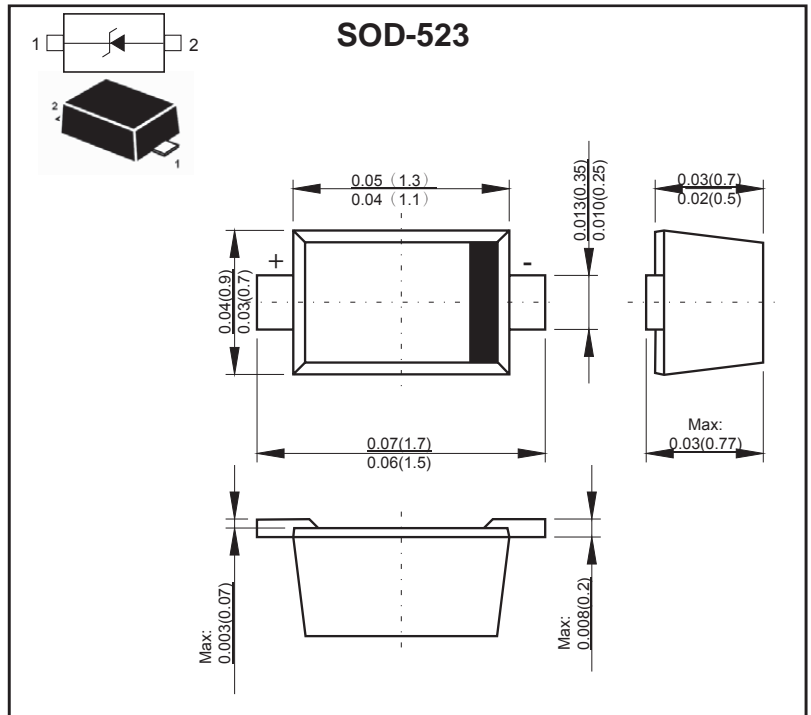
## Electrostatic discharge Protection Devices(ESD)

### FEATURES

- Reverse working(Stand-off) voltages:5.0V.
- Low leakage.
- Response time is typically<1ns.
- ESD Rating of Class 3(>16kV) per Human Body Model.
- IEC61000-4-2Level 4ESD Protection.

### APPLICATIONS

- Designed to protect voltage sensitive components from ESD and transient.
- Case style:SMD molded plastic



## MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbol	Limits	Unit
IEC 61000-4-2 (ESD)	Air Contact	±30	kV
ESD voltage	per human body model	16	kV
	per machine model	400	V
Total power dissipation on FR-5 board(Note 1)	$P_D$	150	mW
Junction and Storage temperature range	$T_j, T_{stg}$	-55 to+150	°C
Thermal Resistance Junction-to Ambient	$R_{\theta JA}$	833	°C/W
Lead solder temperature range	$T_L$	260(10s)	°C

Note 1.FR-5=1.0\*0.75\*0.62in



## RATINGS AND CHARACTERISTIC CURVES

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

Device	Device Marking	VRWM (V)	IR( $\mu\text{A}$ ) @VRWM	VBR(V) @IT		IT	VC@ IPP=5A	IPP	VC@ Max IPP	PPK	C(pF)
		Max.	Max.	Min.	Max.	mA	V	A	V	W	pF
GESD5V0D5	ZF	5.0	0.08	6.2	7.3	1.0	11.6	9.4	18.6	174	80

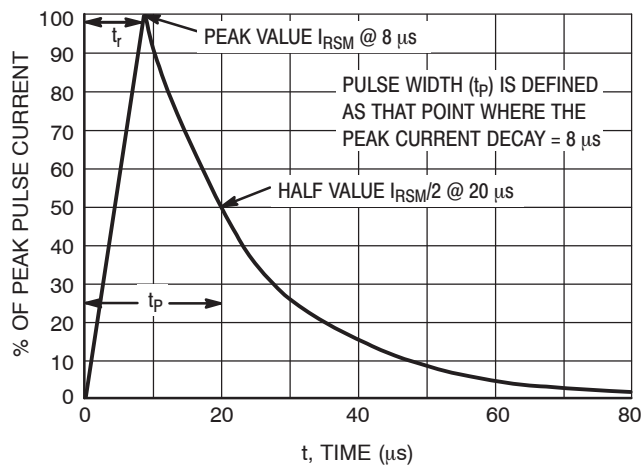


Figure 1. 8 x 20  $\mu\text{s}$  Pulse Waveform

### PACKAGE INFORMATION

Device	Package	Shipping
GESD5V0D5	SOD-523	3000/Tape&Reel