

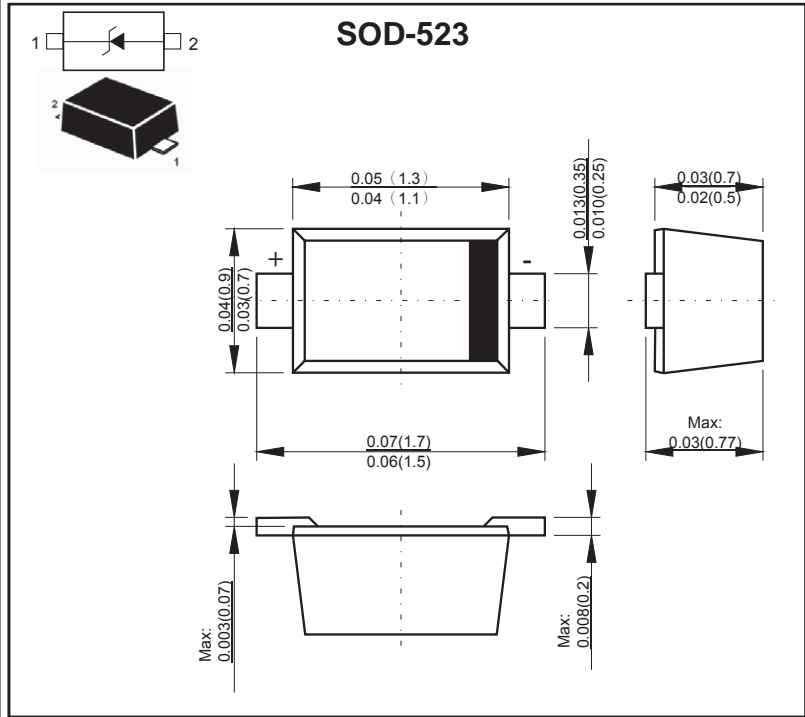
## Electrostatic discharge Protection Devices(ESD)

### 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 4 ESD Protection.

### APPLICATIONS

- Designed to protect voltage sensitive components from ESD and transient.
- Case style:SOD-523molded 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 per machine model		16 400	kV 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 (10 Second Duration)	$T_L$	260	°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	$V_{RWM}$	$I_R(\mu\text{A})$	$V_{BR}(V)$		$I_T$	$V_C@$	$I_{PP}$	$V_C@$	$P_{PK}$	$C(\text{pF})$
		(V)	@ $V_{RWM}$	@ $I_T$			$I_{PP}=5A$		Max $I_{PP}$		
		Max.	Max.	Min.	Max.	mA	V	A	V	W	pF
ESD5V0D5	ZF	5.0	0.08	6.2	7.3	1.0	11.6	9.4	18.6	174	80

### PACKAGE INFORMATION

Device	Package	Shipping
ESD5V0D5	SOD-523	8000/Tape&Reel

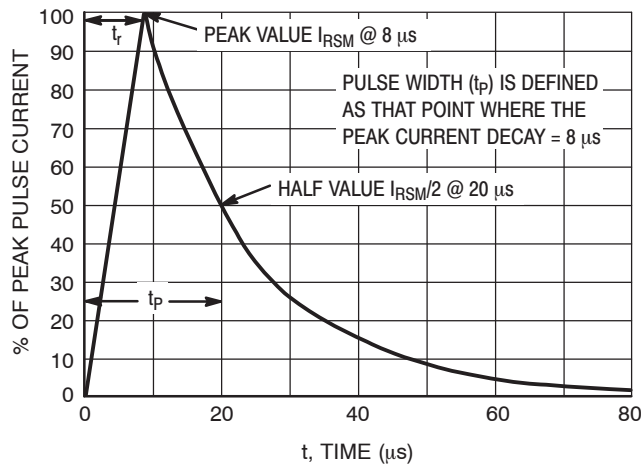


Figure 1. 8 x 20  $\mu\text{s}$  Pulse Waveform