

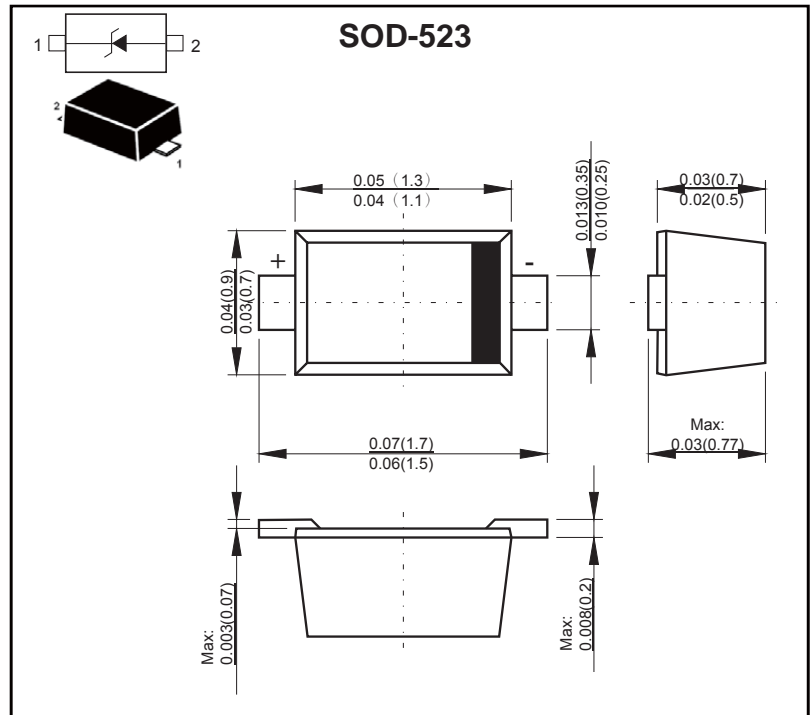
## Electrostatic discharge Protection Devices(ESD)

### 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.
- Bi-directional micro-packaged diodes for ESD protection.
- 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) Contact		± 30	kV
ESD voltage per human body model		16	kV
per machine model		400	V
Peak power per 8×20μs waveform	P <sub>PK</sub>	50	W
Peak power per 10×1000μs waveform		10	
Total power dissipation	P <sub>tot</sub>	200	mW
Junction and Storage temperature range	T <sub>j</sub> , T <sub>stg</sub>	-55 to +150	°C
Lead solder temperature range (10 Second Duration)	T <sub>L</sub>	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	$V_{RWM}$ (V)	$I_R(\mu\text{A})$ @ $V_{RWM}$	$V_{BR}(V)$ @ $I_T$		$I_T$	$C(\text{pF})@V_R=0V,$ $f=1\text{MHz}$
		Max.	Max.	Min.	Max.	mA	Typ.
ESD5V0B5	B5	5.0	1.0	5.8	7.8	1.0	10

### PACKAGE INFORMATION

Device	Package	Shipping
ESD5V0B5	SOD-523	8000/Tape&Reel

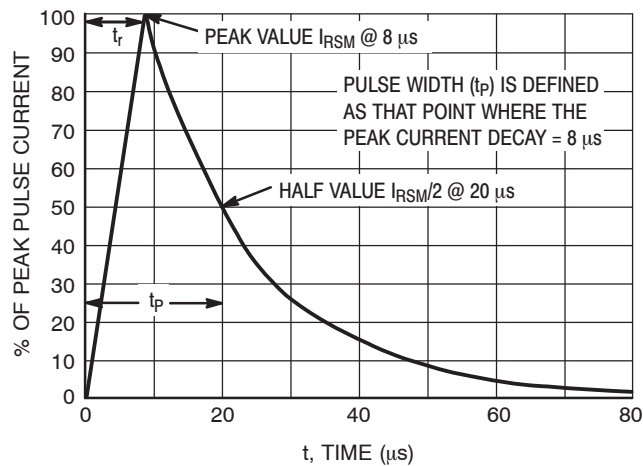


Figure 1. 8 x 20  $\mu\text{s}$  Pulse Waveform