

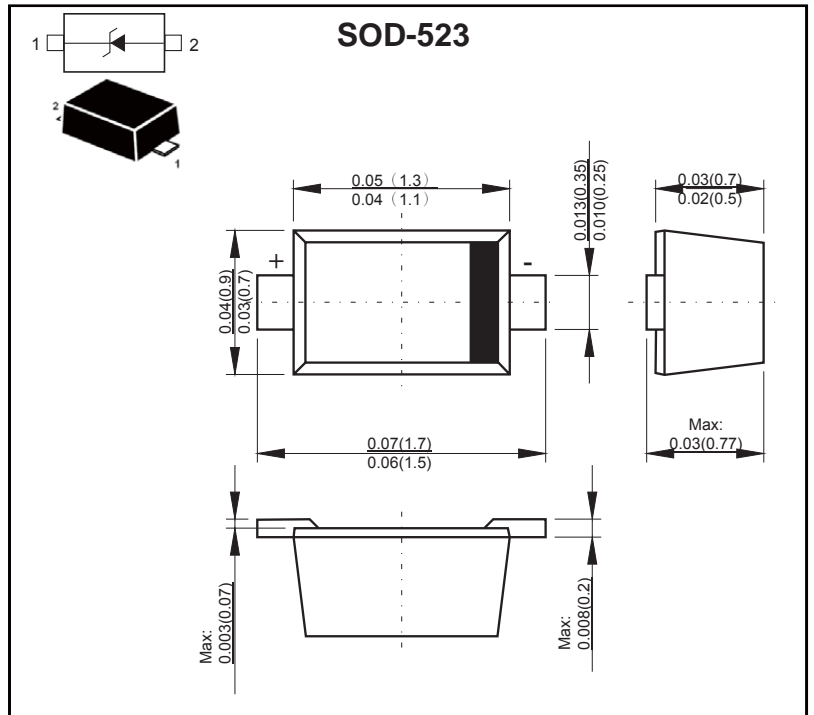
## Electrostatic discharge Protection Devices(ESD)

### FEATURES

- Reverse working(Stand-off) voltages:2.5V-12V
- 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 Contact		$\pm 30$ $\pm 30$	kV
IEC 61000-4-4 (EFT)		40	A
ESD voltage per human body model per machine model		16 400	kV V
Total power dissipation	$P_{tot}$	100	mW
Total resistance junction to ambient	$R_{\theta JA}$	300	°C/W
Junction and Storage temperature range	$T_j, T_{stg}$	-55 to +150	°C
Lead solder temperature range (10 Second Duration)	$T_L$	260	°C



# RATINGS AND CHARACTERISTIC CURVES

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

Device	Device Marking	$V_{RWM}$	$I_R(\mu\text{A})$	$V_{BR}(V)$	$I_T$	$V_C(V)$	$V_C(V)$	$I_{PP}(A)$	$P_{PK}(W)$	$C(pF)$
		(V)	@ $V_{RWM}$	@ $I_T$	mA	@ $I_{PP}=5.0A$	@ Max. $I_{PP}$			
		Max.	Max.	Min.		Typ.	Max.	Max.	Max.	Typ.
ESD5Z2V5	ZD	2.5	6.0	4.0	1.0	6.5	10.9	11.0	120	145
ESD5Z3V3	ZE	3.3	0.05	5.0	1.0	8.4	14.1	11.2	158	105
ESD5Z5V0	ZF	5.0	0.05	6.2	1.0	11.6	18.6	9.4	174	80
ESD5Z6V0	ZG	6.0	0.01	6.8	1.0	12.4	20.5	8.8	181	70
ESD5Z7V0	ZH	7.0	0.01	7.5	1.0	13.5	22.7	8.8	200	65
ESD5Z12V	ZM	12	0.01	14.1	1.0	17	25	9.6	240	55

## PACKAGE INFORMATION

Device	Package	Shipping
ESD5Z2.5--- ESD5Z12	SOD-523	8000/Tape&Reel

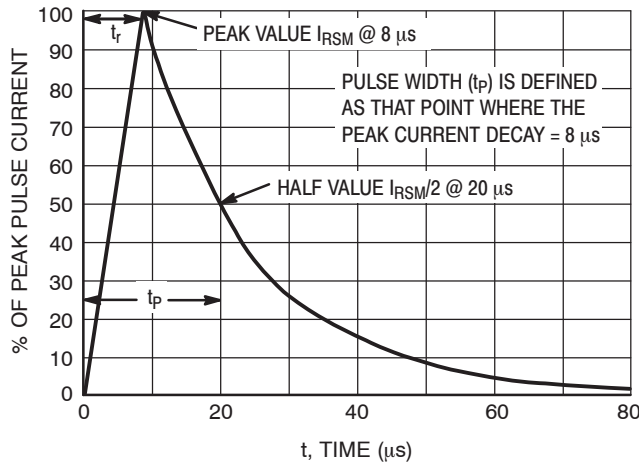


Figure 1. 8 x 20  $\mu\text{s}$  Pulse Waveform