

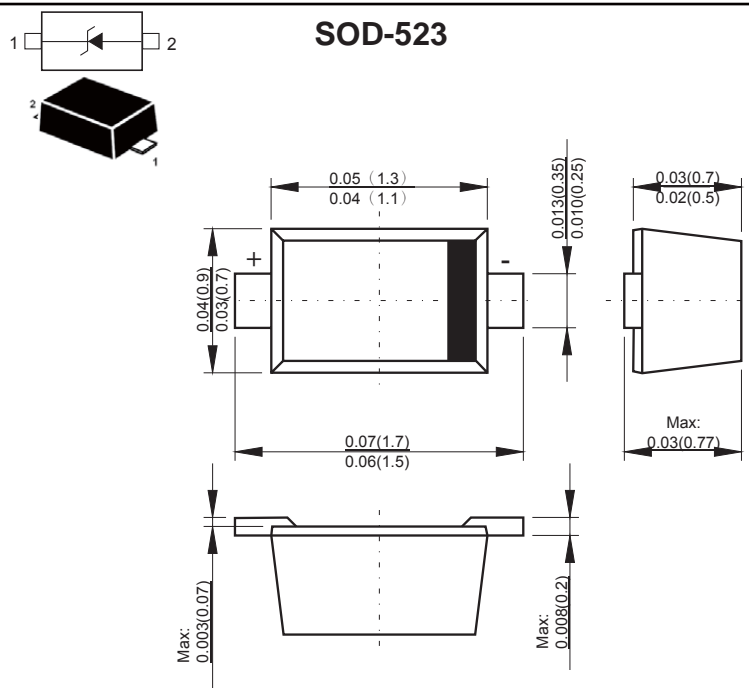
Electrostatic discharge Protection Devices(ESD)

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}	$I_R(\mu\text{A})$	$V_{BR}(\text{V})$		I_T	$V_C@$	I_{PP}	$V_C@$	P_{PK}	$C(\text{pF})$
		(V)	@ V_{RWM}	Min.	Max.	mA	$I_{PP}=5\text{A}$	A	Max I_{PP}	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

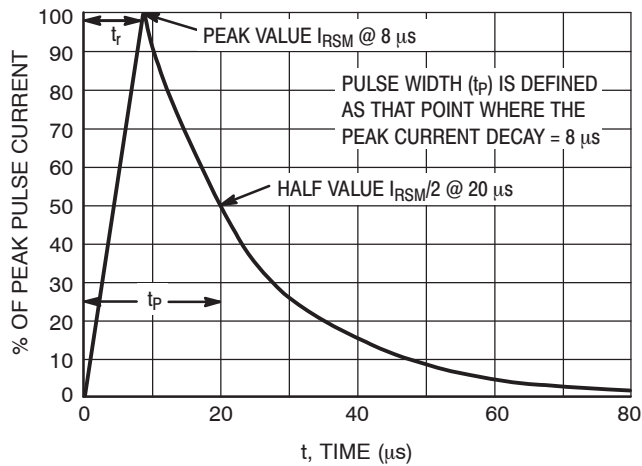


Figure 1. $8 \times 20 \mu\text{s}$ Pulse Waveform