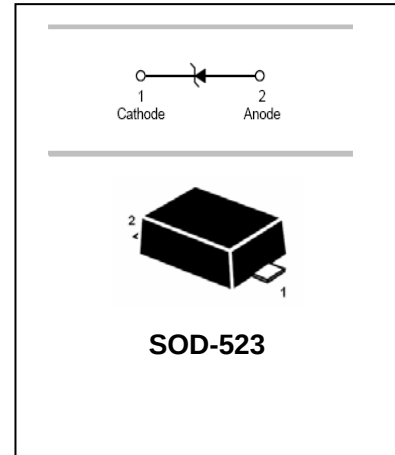


Transient voltage suppressors

ESD5Z2.5 SERIES

FEATURES

- Stand-off voltage:2.5V-7.0V.
- Low leakage.
- Response time is typically<1ns.



APPLICATIONS

- Designed to protect voltage sensitive components from ESD and transient.

ORDERING INFORMATION

Type No.	Marking	Package Code
ESD5Z2.5-ESD5Z12	See table on page 2	SOD-523

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Parameter	Symbol	Limits	Unit
IEC 61000-4-2 (ESD) Air contact Contact		± 30 ± 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

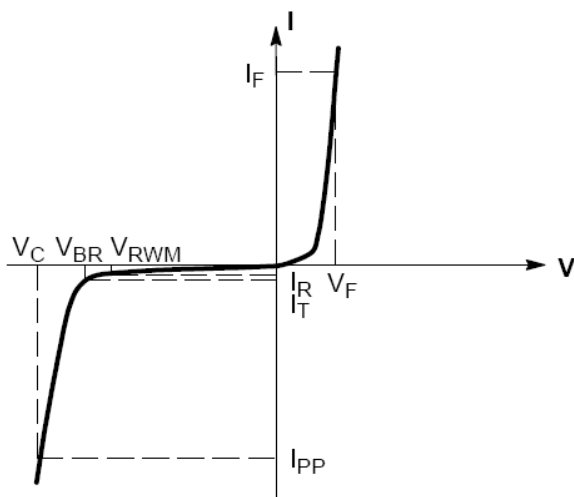
Transient voltage suppressors

ESD5Z2.5 SERIES

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Device	Device Marking	V_{RWM} (V)	$I_R(\mu A)$ @ V_{RWM}	$V_{BR}(V)$ @ I_T	I_T	$V_C(V)$ @ $I_{PP}=5.0A$	$V_C(V)$ @ $Max. I_{PP}$	$I_{PP}(A)$	$P_{PK}(W)$	$C(pF)$
		Max.	Max.	Min.	mA	Typ.	Max.	Max.	Max.	Typ.
ESD5Z2.5	ZD	2.5	6.0	4.0	1.0	6.5	10.9	11.0	120	145
ESD5Z3.3	ZE	3.3	0.05	5.0	1.0	8.4	14.1	11.2	158	105
ESD5Z5.0	ZF	5.0	0.05	6.2	1.0	11.6	18.6	9.4	174	80
ESD5Z6.0	ZG	6.0	0.01	6.8	1.0	12.4	20.5	8.8	181	70
ESD5Z7.0	ZH	7.0	0.01	7.5	1.0	13.5	22.7	8.8	200	65
ESD5Z12	ZM	12	0.01	14.1	1.0	17	25	9.6	240	55

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified



Uni-Directional TVS

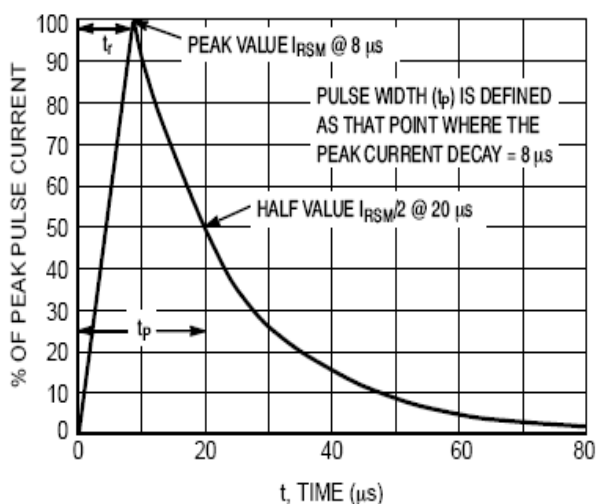


Figure 1. 8 x 20 μs Pulse Waveform



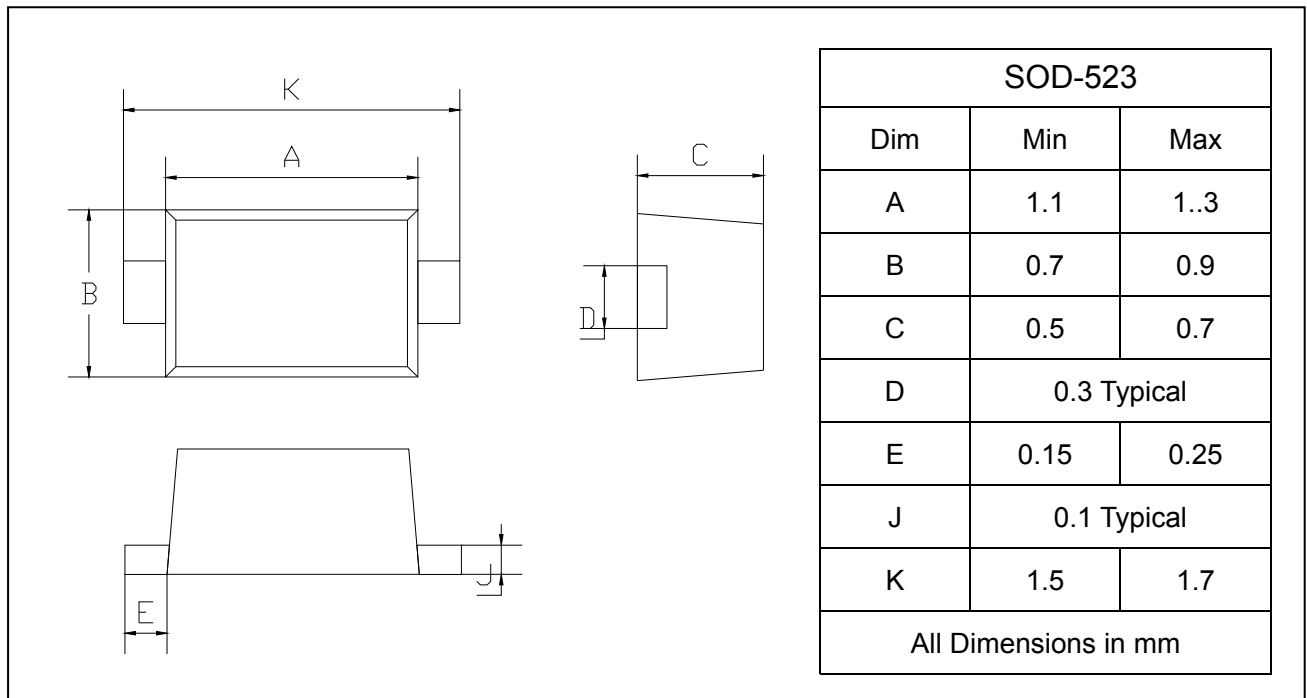
Transient voltage suppressors

ESD5Z2.5 SERIES

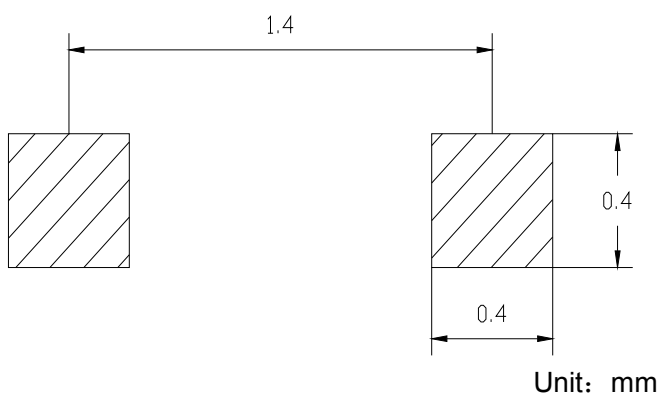
PACKAGE OUTLINE

Plastic surface mounted package

SOD-523



SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
ESD5Z2.5 Series	SOD-523	3000/Tape&Reel