

Surface Mount Transient Voltage Suppressor

ESD5Z3.3

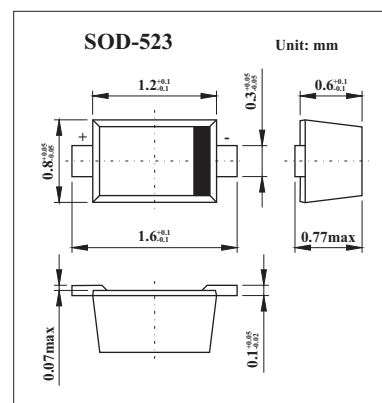
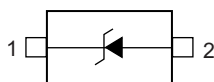
Features

Peak Power up to 200 Watts @ 8 x 20 μ s Pulse

Low Leakage

Response Time is Typically 1 ns

ESD Rating of Class 3 (> 16 kV) per Human Body Model



Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
ESD Voltage			
Per Human Body Model		16	KV
Per Machine Model		400	V
Electrostatic discharge			
IEC61000-4-2 Air discharge		30	KV
IEC61000-4-2 Contact Air discharge		30	
Electrostatic discharge			
IEC61000-4-4		40	A
Total Power Dissipation on FR-5 Board*1, @ $T_a = 25^\circ\text{C}$	P_D	100	mW
Junction Temperature Range	T_J	260(10s)	$^\circ\text{C}$
Lead Solder Temperature -Maximum	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 to +150	$^\circ\text{C}$

*1 FR-5 = 1.0 X 0.75 X 0.62 in.

Electrical Characteristics ($T_a = 25^\circ\text{C}$ unless otherwise noted, $V_F = 0.9$ V Max. @ $I_F = 10$ mA for all types)

Device	$V_{RWM}(V)$	$I_R(\mu A)$ @ V_{RWM}	$V_{BR}(V)$ @ I_T^*2	I_T	$V_C(V)^*1$ @ $I_{PP}=5.0A$	$V_C(V)^*1$ @ Max I_{PP}	$I_{PP}(A)^*1$	$P_{PK}(W)^*1$	$C(pF)$
	Max	Max	Min	mA	Typ	Max	Max	Max	Typ
ESD5Z3.3	3.3	0.05	5.0	1.0	8.4	14.1	11.2	158	105

* 1. Surge current waveform per Fig.1

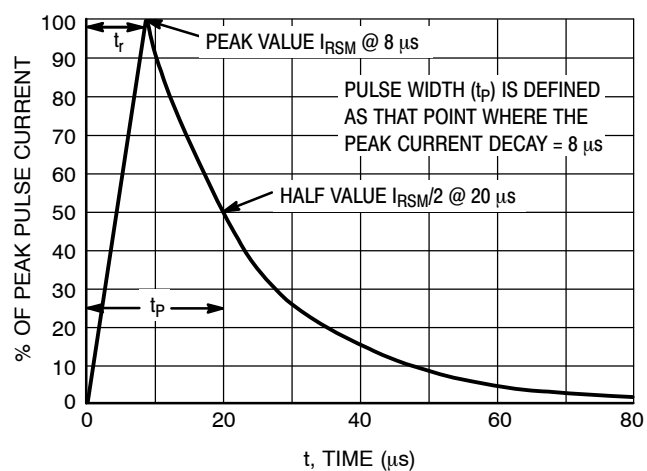
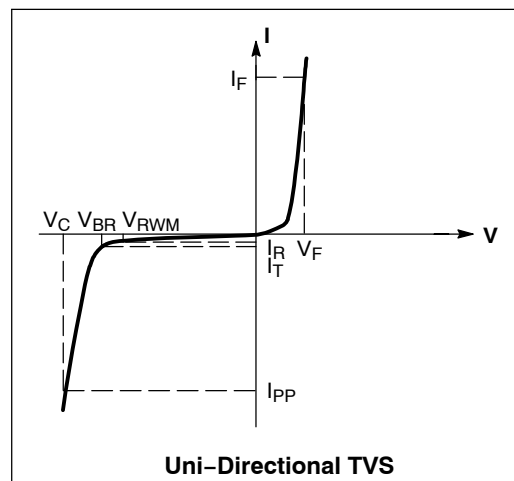
2. V_{BR} is measured with a pulse test current I_T at an ambient temperature of 25°C .

Marking

Marking	ZE
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ESD5Z3.3

Typical Characteristics

Figure 1. 8 x 20 μ s Pulse Waveform