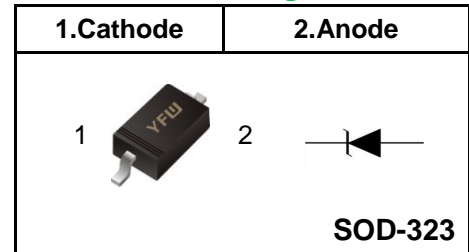


**Transient Voltage Suppressors
for ESD Protection**

FEATURES

- ◆ Low clamping voltage
- ◆ Low leakage

Pinning



Marking Code

ESD3Z7.0	7A
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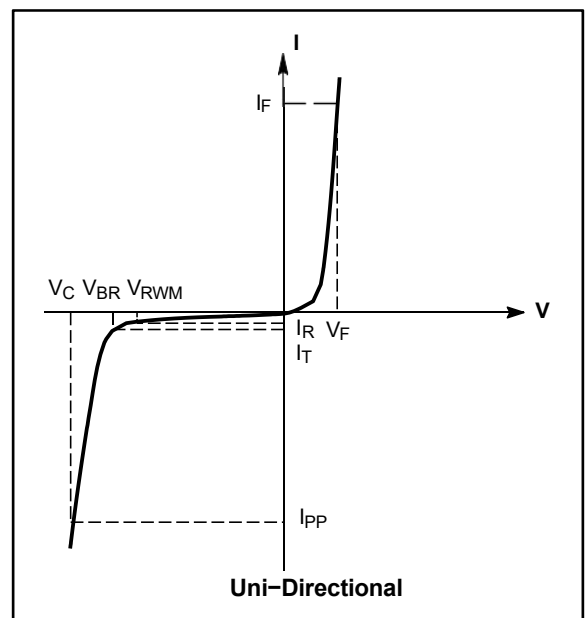
Absolute Maximum Ratings (Ta=25 °C)

Parameter	Symbol	Value	Unit
IEC61000-4-2 (ESD) Air Contact	V_{ESD}	± 30 ± 30	KV
IEC61000-4-4 (EFT)	-	24	A
ESD Voltage Per Human Body Model Per Machine Model	E_{SD}	16	KV
		400	V
Power Dissipation on FR-5 Board	P_D	250	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{STG}	- 55 to + 150	°C

Electrical Characteristics

(T_A = 25°C unless otherwise noted)

Symbol	Parameter
I_{PP}	Maximum Reverse Peak Pulse Current
V_C	Clamping Voltage @ I_{PP}
V_{RWM}	Working Peak Reverse Voltage
I_R	Maximum Reverse Leakage Current @ V_{RWM}
V_{BR}	Breakdown Voltage @ I_T
I_T	Test Current
I_F	Forward Current
V_F	Forward Voltage @ I_F
P_{pk}	Peak Power Dissipation
C	Max. Capacitance @ $V_R = 0$ and $f = 1$ MHz

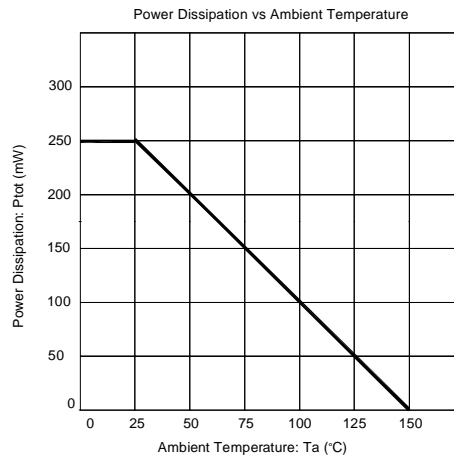
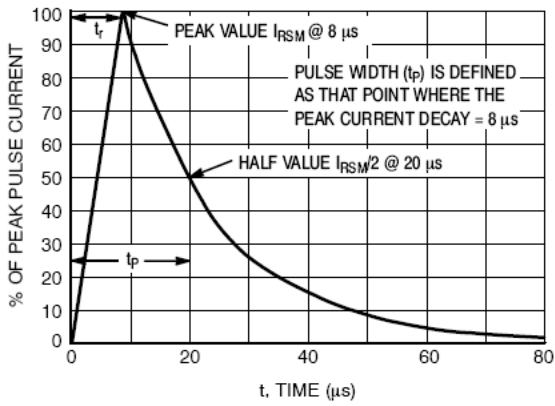


*See Application Note AND8308/D for detailed explanations of datasheet parameters.

Characteristics at Ta = 25°C (VF=0.9V Max. at IF=10mA)

Type	Marking Code	Reverse Stand-off Voltage		Reverse Current		Breakdown Voltage		Clamping Voltage ¹⁾				Capacitance	
		V_{RWM}		I_R at V_{RWM}		V_{BR}	at I_T	V_C	at I_{PP}	V_C	at I_{PP}	C_j	at f
		Max. (V)		Max.(μ A)		Min.(V)	mA	Typ.(V)	A	Max.(V)	A	Max.(pF)	MHz
ESD3Z7.0	7A	7		1		7.5	1	13.5	5	22.7	8.8	65	1

1)tp = 8/20 μ s



Ordering information

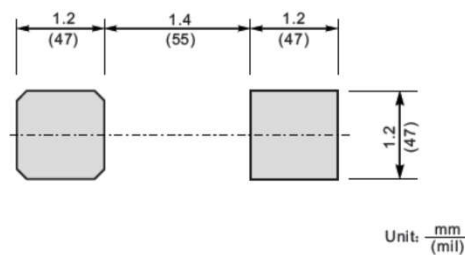
Package	Packing Description	Packing Quantity
SOD-323	Tape/Reel, 7" reel	3000PCS/Reel 120000PCS/Carton

Package Dimensions

SOD-323

	Millimeter(mm)		mil	
	Dim.	Min.	Max.	Min.
A	0.8	1.1	32	43
C	0.08	0.15	3.1	5.9
D	1.2	1.4	47	55
E	1.4	1.8	63	70
E1	2.55	2.75	100	108
b	0.25	0.4	9.8	16
L1	0.2	0.45	7.9	16
A1	-	0.2	-	8
∠	9°			

The recommended mounting pad size



Disclaimer

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