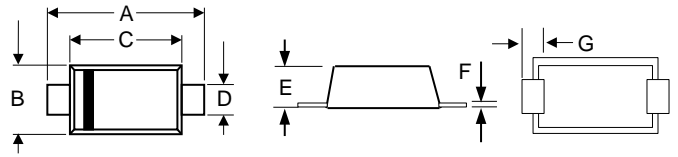


### Features

- \* Excellent clamping capability
- \* Low leakage
- \* Fast response time
- \* For ESD protection



RoHS  
COMPLIANT



SOD-523F				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.059	0.067	1.50	1.70
B	0.030	0.033	0.75	0.85
C	0.045	0.049	1.15	1.25
D	0.012	0.016	0.30	0.40
E	0.024	0.028	0.60	0.70
F	0.004	0.005	0.10	0.14

### Maximum Ratings (T<sub>A</sub>=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
IEC61000-4-2 (ESD) Air Contact	V <sub>ESD</sub>	± 30 ± 30	KV
ESD Voltage Per Human Body Model Per Machine Model	V <sub>ESD</sub>	16 400	KV V
Power Dissipation on FR-5 Board	P <sub>tot</sub>	200	mW
Junction Temperature	T <sub>j</sub>	150	°C
Storage Temperature Range	T <sub>stg</sub>	- 55 to + 150	°C

### Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

Type	Marking Code	Reverse Stand-off Voltage	Reverse Current	Breakdown Voltage		Clamping Voltage			Reverse Peak Pulse Current	Peak Power Dissipation	Capacitance
		V <sub>RWM</sub>	I <sub>R</sub> at V <sub>RWM</sub>	V <sub>BR</sub>	at I <sub>T</sub>	V <sub>C</sub>	at I <sub>PP</sub>	V <sub>C</sub> at Max. I <sub>PP</sub>	I <sub>PP</sub>	P <sub>pk</sub>	C <sub>j</sub>
		Max. (V)	Max. (µA)	Min. (V)	(mA)	Typ. (V)	(A)	Max. (V)	Max. (A)	Max. (W)	Typ. (pF)
ESD5Z2V5	02	2.5	6	4	1	6.5	5	10.9	11	120	145
ESD5Z3V3	ZE	3.3	0.05	5	1	8.4	5	14.1	11.2	158	105
ESD5Z5V0	05	5	0.05	6.2	1	11.6	5	18.6	9.4	174	80
ESD5Z6V0	06	6	0.01	6.8	1	12.4	5	20.5	8.8	181	70
ESD5Z7V0	07	7	0.01	7.5	1	13.5	5	22.7	8.8	200	65
ESD5Z12	12	12	0.01	14.1	1	17	5	25	9.6	240	55

### Ratings and Characteristic Curves

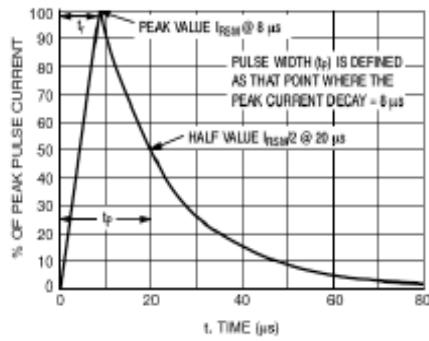
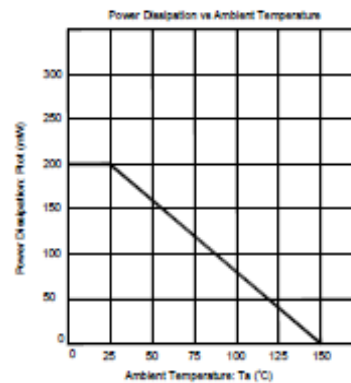


Figure 1. 8 x 20  $\mu$ s Pulse Waveform



### Ordering Information

Part No.	Package	Packing Code	Packing
ESD5Z Series	SOD-523F	R30	3000pcs/Reel

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