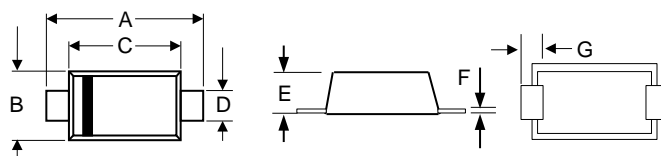


### Features

- \* Protects one I/O or power line
- \* Low leakage current
- \* Low clamping voltage
- \* For ESD protection
- \* Marking Code: "W0"



**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)

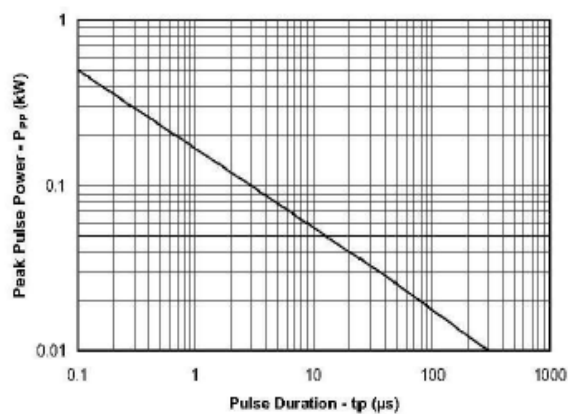
Parameter	Symbol	Value	Unit
Peak Pulse Current (t <sub>p</sub> = 8/20 μs)	I <sub>PP</sub>	5	A
ESD contact discharge (IEC61000-4-2)	V <sub>PP</sub>	± 20	KV
Air		± 15	
Contact			
Peak Pulse Power (t <sub>p</sub> = 8/20 μs)	P <sub>PK</sub>	40	W
Operation Temperature Range	T <sub>j</sub>	- 55 to + 125	°C
Storage Temperature Range	T <sub>stg</sub>	- 55 to + 150	°C

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

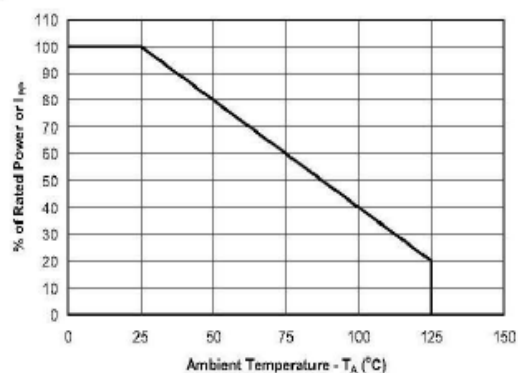
Parameter	Symbol	Min.	Max.	Unit
Reverse Stand-Off Voltage	V <sub>RWM</sub>	-	3.3	V
Punch-Through Voltage at I <sub>PT</sub> = 2 μA	V <sub>PT</sub>	3.5	-	V
Snap-Back Voltage at I <sub>SB</sub> = 50 mA	V <sub>SB</sub>	2.8	-	V
Reverse Current at V <sub>RWM</sub> = 3.3 V	I <sub>R</sub>	-	50	nA
Clamping Voltage at I <sub>PP</sub> = 1 A, t <sub>p</sub> = 8/20 μs at I <sub>PP</sub> = 5 A, t <sub>p</sub> = 8/20 μs	V <sub>C</sub>	- -	5.5 8	V
Junction Capacitance at V <sub>R</sub> = 0 V, f = 1 MHz	C <sub>j</sub>	-	30	pF

## Ratings and Characteristic Curves

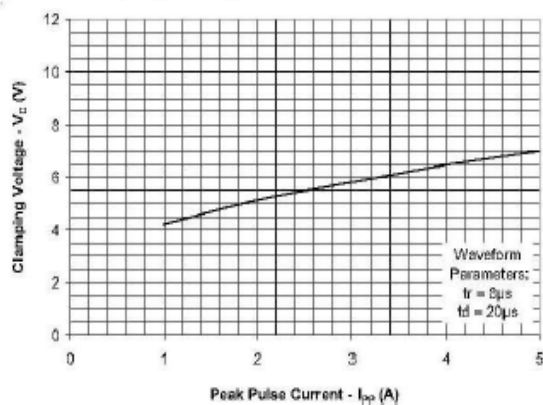
Non-Repetitive Peak Pulse Power vs. Pulse Time



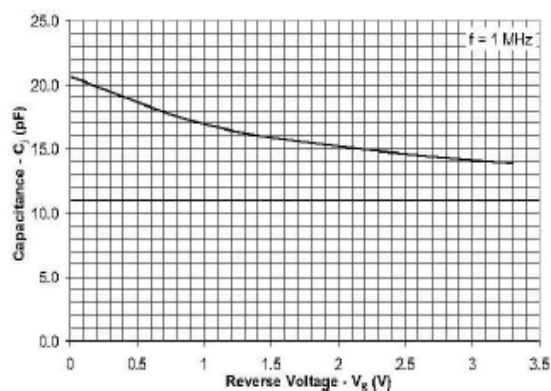
Power Derating Curve



Clamping Voltage vs. Peak Pulse Current



Junction Capacitance vs. Reverse Voltage





## ESD3301WT

*Transient Voltage Suppressor*

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### Ordering Information

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Part No.	Package	Packing Code	Packing
ESD3301WT	SOD-523F	R30	3000pcs/Reel

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