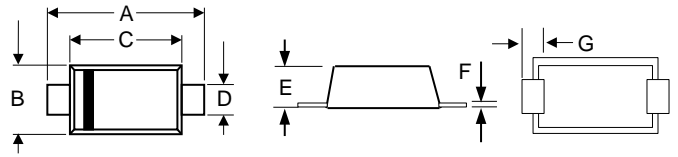


Features

- * 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_A=25°C unless otherwise noted)

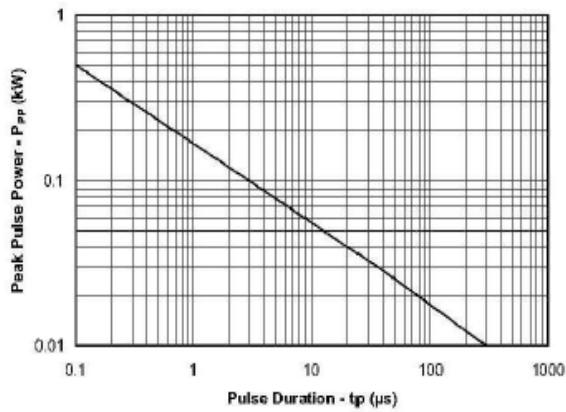
Parameter	Symbol	Value	Unit
Peak Pulse Current (t _p = 8/20 μs)	I _{PP}	5	A
ESD contact discharge (IEC61000-4-2)	V _{PP}	± 20	KV
Air		± 15	
Peak Pulse Power (t _p = 8/20 μs)	P _{PK}	40	W
Operation Temperature Range	T _j	- 55 to + 125	°C
Storage Temperature Range	T _{stg}	- 55 to + 150	°C

Electrical Characteristics (T_A=25°C unless otherwise noted)

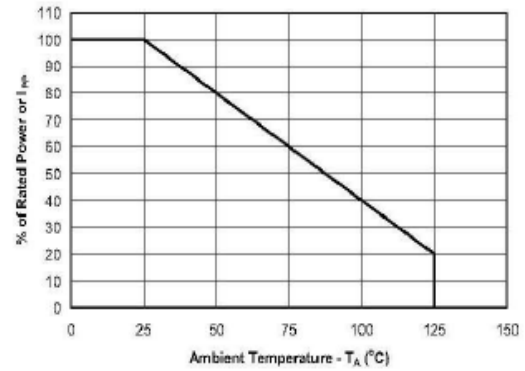
Parameter	Symbol	Min.	Max.	Unit
Reverse Stand-Off Voltage	V _{RWM}	-	3.3	V
Punch-Through Voltage at I _{PT} = 2 μA	V _{PT}	3.5	-	V
Snap-Back Voltage at I _{SB} = 50 mA	V _{SB}	2.8	-	V
Reverse Current at V _{RWM} = 3.3 V	I _R	-	50	nA
Clamping Voltage at I _{PP} = 1 A, t _p = 8/20 μs at I _{PP} = 5 A, t _p = 8/20 μs	V _C	-	5.5 8	V
Junction Capacitance at V _R = 0 V, f = 1 MHz	C _j	-	30	pF

Ratings and Characteristic Curves

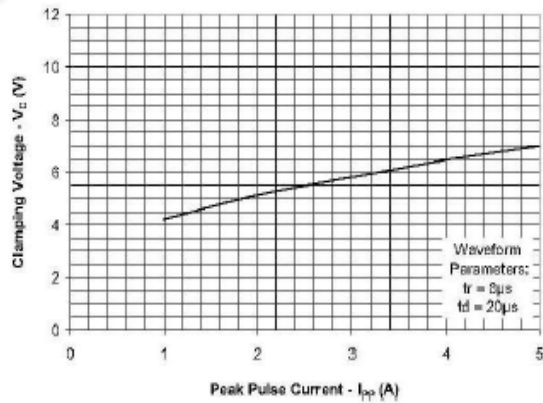
Non-Repetitive Peak Pulse Power vs. Pulse Time



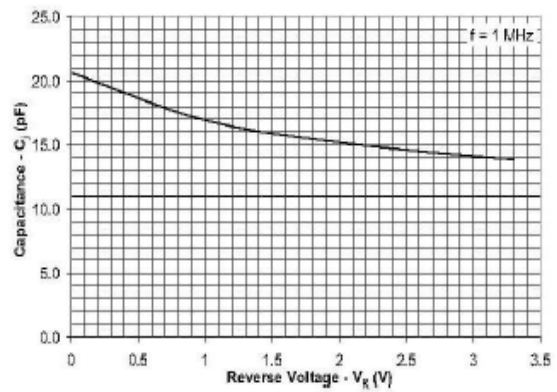
Power Derating Curve



Clamping Voltage vs. Peak Pulse Current



Junction Capacitance vs. Reverse Voltage





ESD3301WT

Transient Voltage Suppressor

Ordering Information

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

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