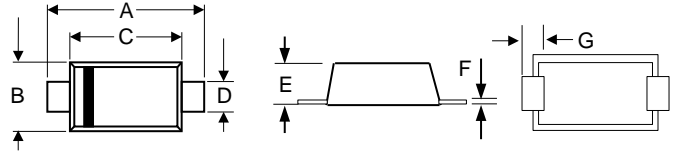


Features

- * For ESD protection
- * Bi-directional low capacitance



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)

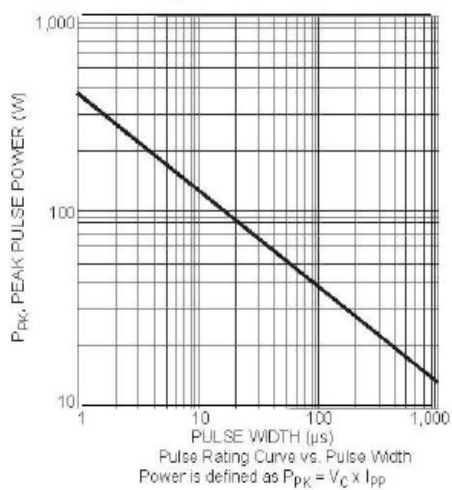
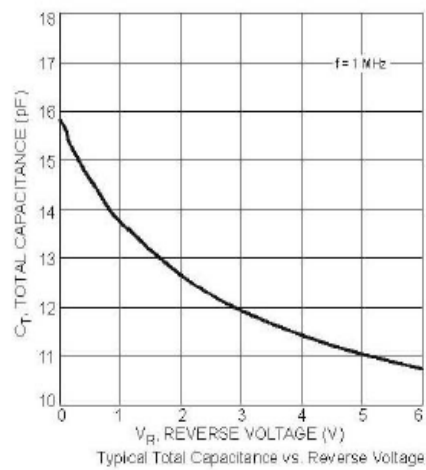
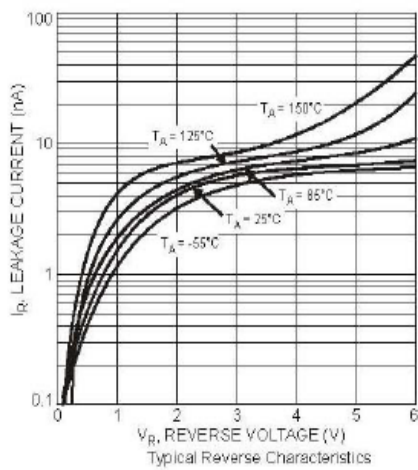
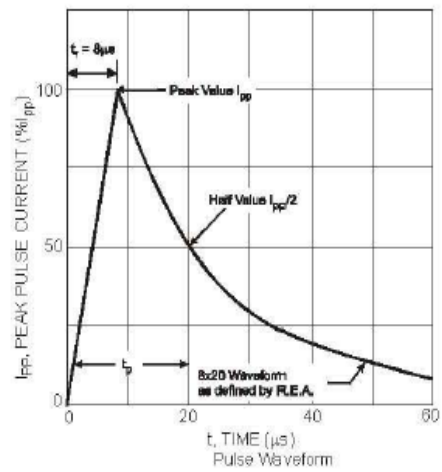
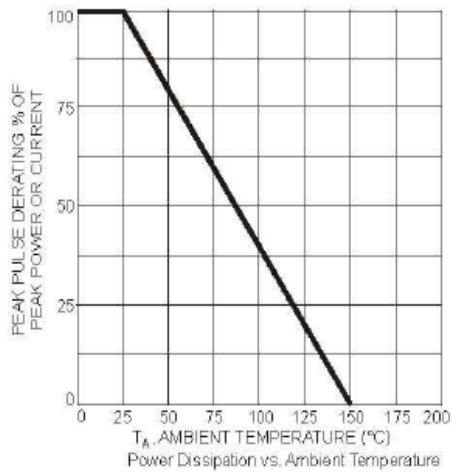
Parameter	Symbol	Value	Unit
Peak Pulse Current (t _p = 8/20 μs)	I _{PP}	6	A
ESD contact discharge (IEC61000-4-2)	V _{ESD}	± 30	KV
Air Contact		± 30	
Peak Pulse Power Dissipation (t _p = 8/20 μs)	P _{PP}	84	W
Power Dissipation ¹⁾	P _D	150	mW
Operating Temperature Range	T _j	- 65 to + 150	°C
Storage Temperature Range	T _{stg}	- 65 to + 150	°C

Note: 1) Device mounted on FR-4 PCB pad layout (2 oz copper)

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

Parameter	Symbol	Min.	Max.	Unit
Reverse Standoff Voltage	V _{RWM}	-	5	V
Breakdown Voltage at I _R = 1 mA	V _{BR}	6	8	V
Reverse Current at V _R = 5 V	I _R	-	100	nA
Clamping Voltage at I _{PP} = 1 A, t _p = 8/20 μs	V _C	-	9	V
at I _{PP} = 3 A, t _p = 8/20 μs		-	10.7	
at I _{PP} = 5 A, t _p = 8/20 μs		-	13.5	
at I _{PP} = 6 A, t _p = 8/20 μs		-	14	
Diode Capacitance at V _R = 0 V, f = 1 MHz	C _D	-	20	pF

Ratings and Characteristic Curves





ESD5BL5V0

Transient Voltage Suppressor

Ordering Information

Part No.	Package	Packing Code	Packing
ESD5BL5V0	SOD-523F	R30	3000pcs/Reel

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