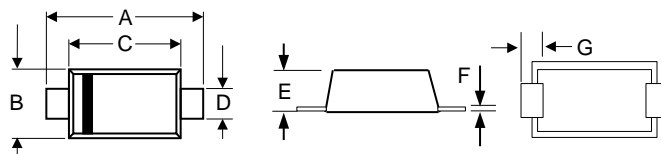


Features

- * Excellent clamping capability
- * Low leakage
- * Fast response time
- * Bi-directional 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_A=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Working Peak Reverse Voltage	V _{RWM}	5	V
IEC61000-4-2 (ESD) Contact	-	± 30	KV
ESD Voltage	-	16	KV
Per Human Body Model	-	400	V
Per Machine Model	-		
Peak Power	P _{PK}	50	W
Per 8 X 20 μs Waveform		10	
Per 10 X 1000 μs Waveform			
Power Dissipation on FR-5 Board	P _{tot}	200	mW
Junction and Storage Temperature Range	T _j / T _{stg}	- 55 to + 150	°C

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

Parameter	Symbol	Min.	Typ.	Max.	Unit
Breakdown Voltage at I _T = 1 mA	V _{(BR)R}	5.8	-	7.8	V
Reverse Current at V _{RWM} = 5 V	I _R	-	-	1	μA
Total Capacitance at V _R = 0 V, f = 1 MHz	C _{tot}	-	32	-	pF

Ratings and Characteristic Curves

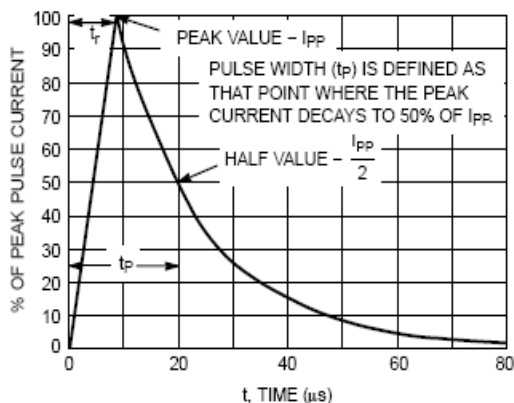


Figure 1. 8 x 20 μs Pulse Waveform

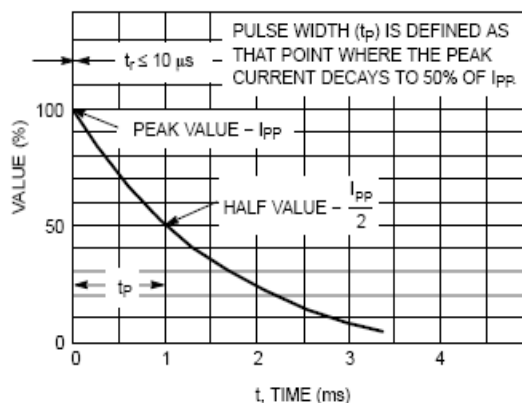


Figure 2. 10 x 1000 μs Pulse Waveform

Ordering Information

Part No.	Package	Packing Code	Packing
ESD5B5WT	SOD-523F	R30	3000pcs/Reel

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