

# ESD5B5

## Transient Voltage Suppressors

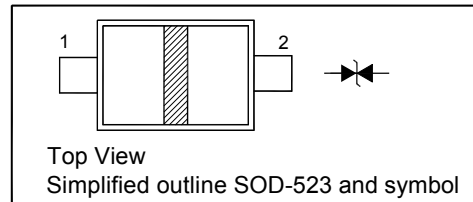
Bi-directional for ESD Protection

### Features

- Excellent clamping capability
- Low leakage
- Fast response time

### PINNING

PIN	DESCRIPTION
1	Anode
2	Anode

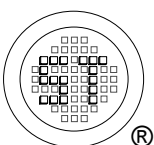


### Absolute Maximum Ratings ( $T_a = 25^\circ\text{C}$ )

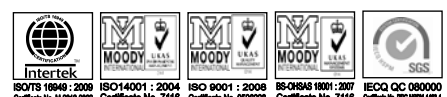
Parameter	Symbol	Value	Unit
Working Peak Reverse Voltage	$V_{RWM}$	5	V
IEC61000-4-2 (ESD) Contact	-	$\pm 30$	KV
ESD Voltage	Per Human Body Model	16	KV
	Per Machine Model	400	V
Peak Power	Per 8 X 20 $\mu\text{s}$ Waveform	50	W
	Per 10 X 1000 $\mu\text{s}$ Waveform	10	W
Power Dissipation on FR-5 Board	$P_{tot}$	200	mW
Junction and Storage Temperature Range	$T_j, T_{stg}$	- 55 to + 150	$^\circ\text{C}$

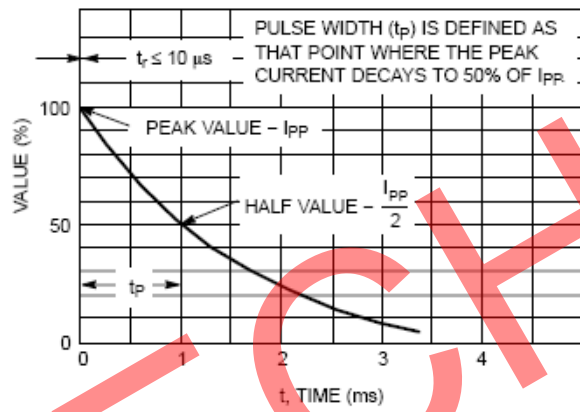
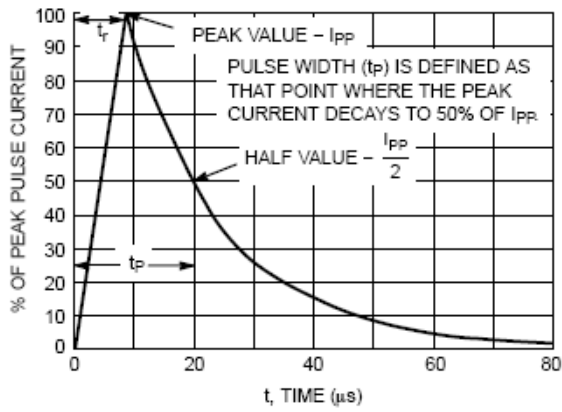
### Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Min.	Typ.	Max.	Unit
Breakdown Voltage at $I_T = 1 \text{ mA}$	$V_{(BR)R}$	5.8	-	7.8	V
Reverse Current at $V_{RWM} = 5 \text{ V}$	$I_R$	-	-	1	$\mu\text{A}$
Total Capacitance at $V_R = 0 \text{ V}, f = 1 \text{ MHz}$	$C_{tot}$	-	32	-	pF

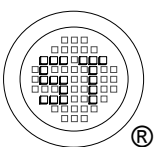


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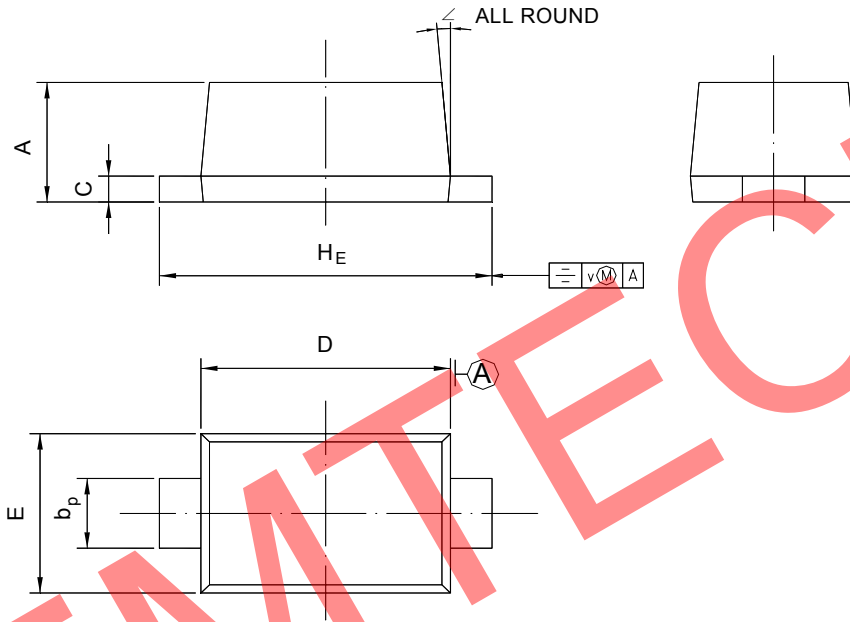


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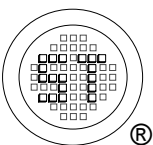
## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-523



UNIT	A	b <sub>p</sub>	C	D	E	H <sub>E</sub>	V	∠
mm	0.70	0.4	0.135	1.25	0.85	1.7	0.1	5°
	0.60	0.3	0.100	1.15	0.75	1.5		



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