



## General description

The SLESD5D5.0C is designed to protect voltage sensitive components from ESD and transient voltage events. Excellent clamping capability, low leakage, and fast response time , make these parts ideal for ESD protection on designs where board space is at a premium

## Features and benefits

- Low Capacitance: 8 pF(Typ)
- Reverse stand-off voltage: 5V Max
- Low leakage current: nA Level
- Low Clamping Voltage
- Response time is typically < 1 ns
- IEC61000-4-2 Level 4 ESD Protection

## Application information

- Cell phones
- Audio equipment
- Portable devices
- Digital cameras
- Power supplies

## Ordering information

Device	Package	Marking	Packaging
SLESD5D5.0C	SOD523	5XB	3000/Tape & Reel

## Schematic & Pin configuration

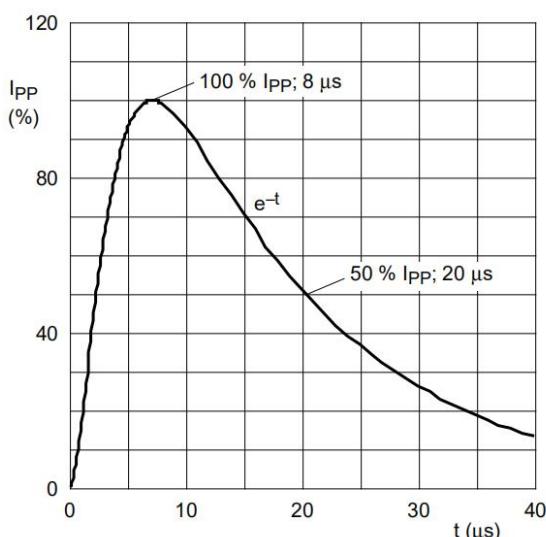
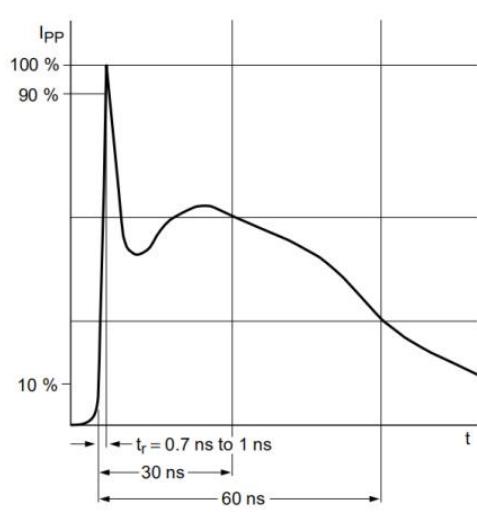
Simplified outline	Graphic symbol
	

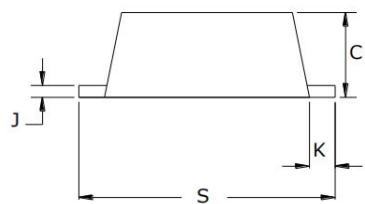
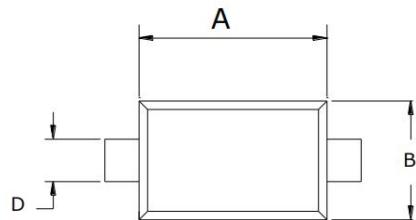
**Maximum Ratings** ( $T_{OP} = 25^\circ C$ , unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Power ( $t_p = 8/20 \mu s$ )	$P_{PPM}$	50	W
Peak Pulse Current ( $t_p = 8/20 \mu s$ )	$I_{PPM}$	5	A
Maximum lead temperature for soldering during 10s	$T_L$	260	°C
Storage Temperature Range	$T_{stg}$	-55 to +150	°C
Operating Temperature Range	$T_{OP}$	-40 to +125	°C
Maximum junction temperature	$T_j$	150	°C
ESD voltage IEC 61000-4-2 (air discharge)	$V_{ESD}$	30	kV
ESD voltage IEC 61000-4-2 (contact discharge)	$V_{ESD}$	30	kV

**Electrical Characteristics** ( $T_{OP} = 25^\circ C$ , unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit	Condition
Reverse Working Voltage	$V_{RWM}$	--	--	5.0	V	
Breakdown Voltage	$V_{BR}$	5.6	--	7.5	V	$I_T=1mA$
Leakage Current $ I_{Leak} $	$I_R$	--	--	100	nA	$V_{RWM}=5V$
Clamping Voltage	$V_C$	--	9	10	V	$I_{PP}=5A, T_p=8/20\mu s$
Junction Capacitance	$C_J$	--	8	10	pF	$V_R=0V, f=1MHz$



**Package Outline Dimensions****SOD523**

SYMBOL	Dimensions In Millimetres	
	MIN	MAX
A	1.10	1.30
B	0.70	0.90
C	0.50	0.70
D	0.25	0.35
J	0.07	0.20
K	0.15	0.25
S	1.50	1.70

**Soldering Footprint (mm)**