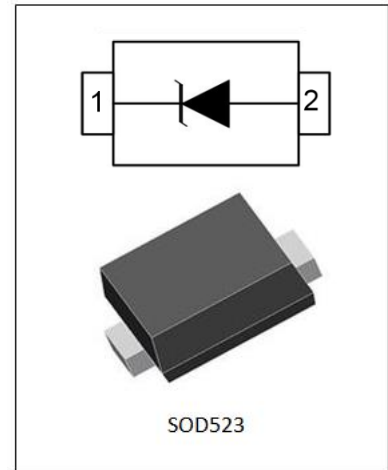


Features

- ◆ 150 Watts peak pulse power ($t_p = 8/20\mu s$)
- ◆ Transient protection for high speed data lines to IEC 61000-4-2 (ESD) $\pm 15kV$ (air), $\pm 8kV$ (contact)
IEC 61000-4-4 (EFT) 40A (5/50ns)
- ◆ Working voltages : 5V
- ◆ Protects One Power or I/O Port
- ◆ Low operating and clamping voltages
- ◆ Solid-state silicon avalanche technology



Applications

- ◆ Notebooks, Desktops, Servers and Video Graphics Cards
- ◆ USB Power & Data Line Protection
- ◆ Monitors and Flat Panel Displays
- ◆ I²C Bus Protection
- ◆ Portable Instrumentation
- ◆ Set Top Box

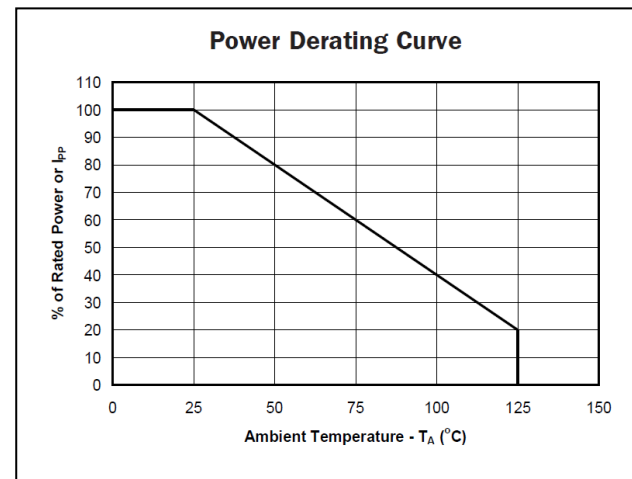
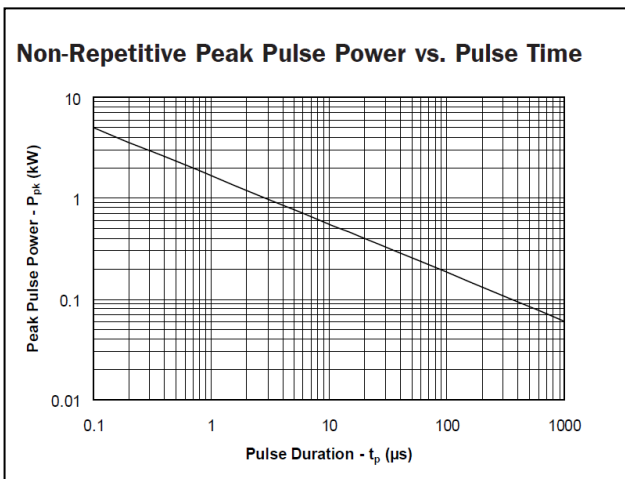
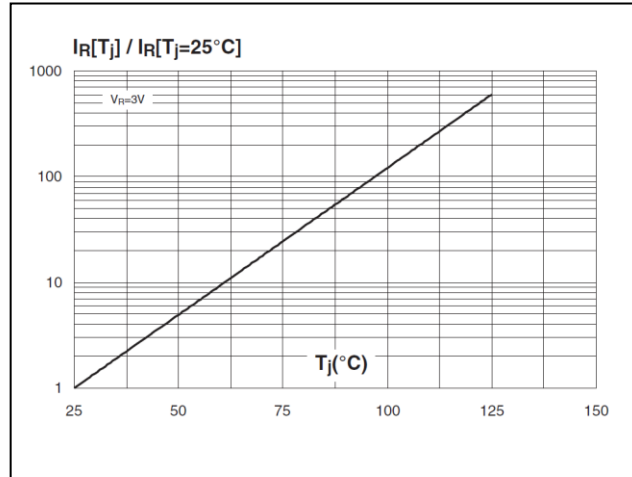
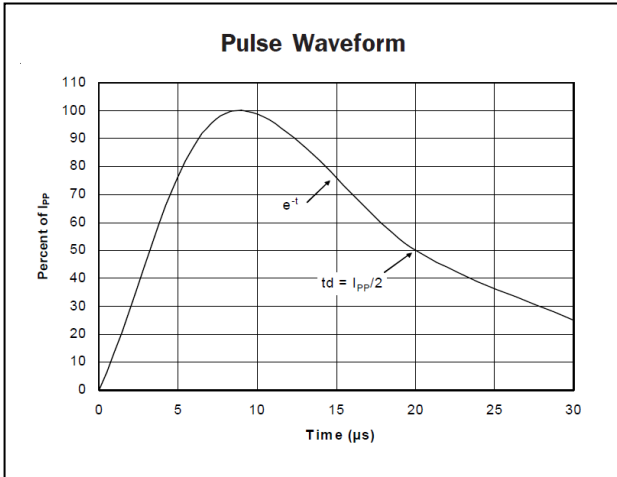
Maximum Rating @ $T_a = 25^\circ C$ unless otherwise specified

Symbol	Parameter	Ratings	Units
P_{PK}	Peak Pulse Power ($t_p = 8/20\mu s$)	150	Watts
T_L	Lead Soldering Temperature	260(10sec.)	$^\circ C$
T_J	Operating Temperature	-55 to +125	$^\circ C$
T_{STG}	Storage Temperature	-55 to +150	$^\circ C$

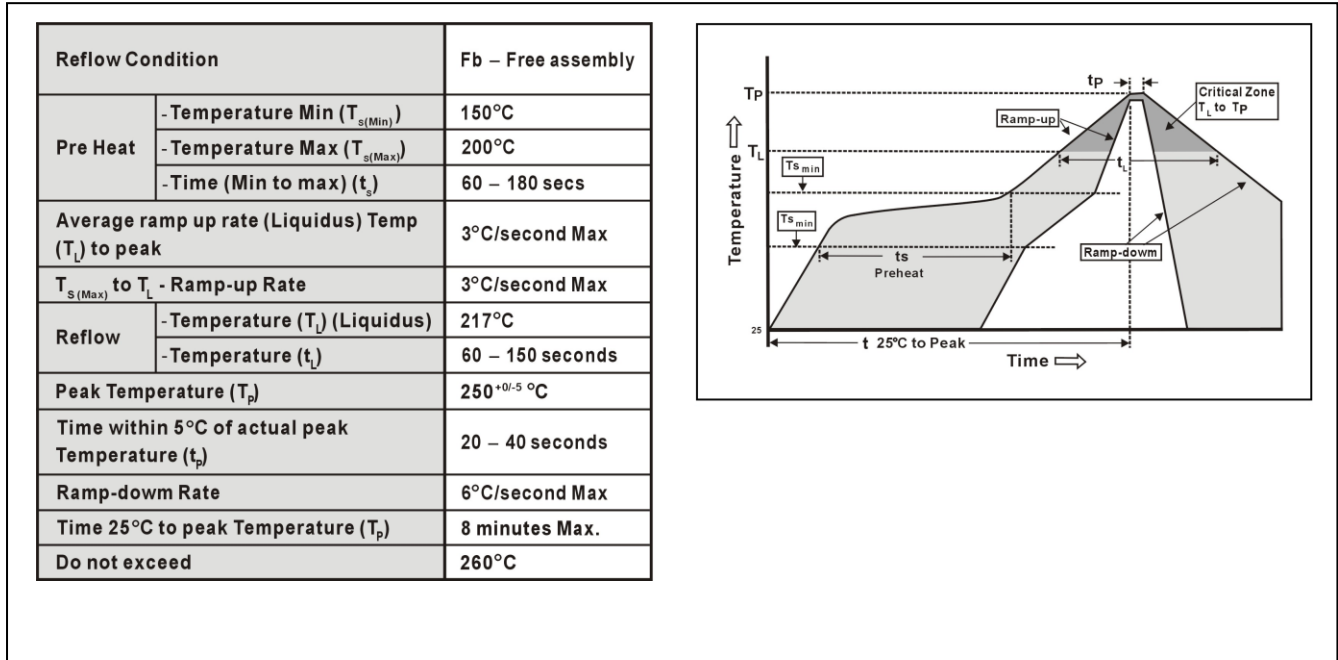
Electrical Characteristics @ Ta=25°C unless otherwise

Parameter	Marking	VRWM @IR		VBR@ImA	VC@1	VC@IPP		CJ
		V	μA	V	V	V	A	pF
			MAX	MIN	MAX	MAX		MAX
ESD5Z3.3		3.3	1	4	9.8	13	12	120
ESD5Z5.0		5	1	5.8	11.8	15	10	100
ESD5Z7.0		7	1	7.5	14	19	8	80
ESD5Z12		12	1	13.3	19	25	6	70
ESD5Z15		15	1	16.5	24	33	5	50
ESD5Z24		24	1	26.1	44	54	3	30
ESD5Z36		36	1	38.2	62	80	3	30

Typical Characteristics @ $T_a=25^\circ\text{C}$ unless otherwise specified



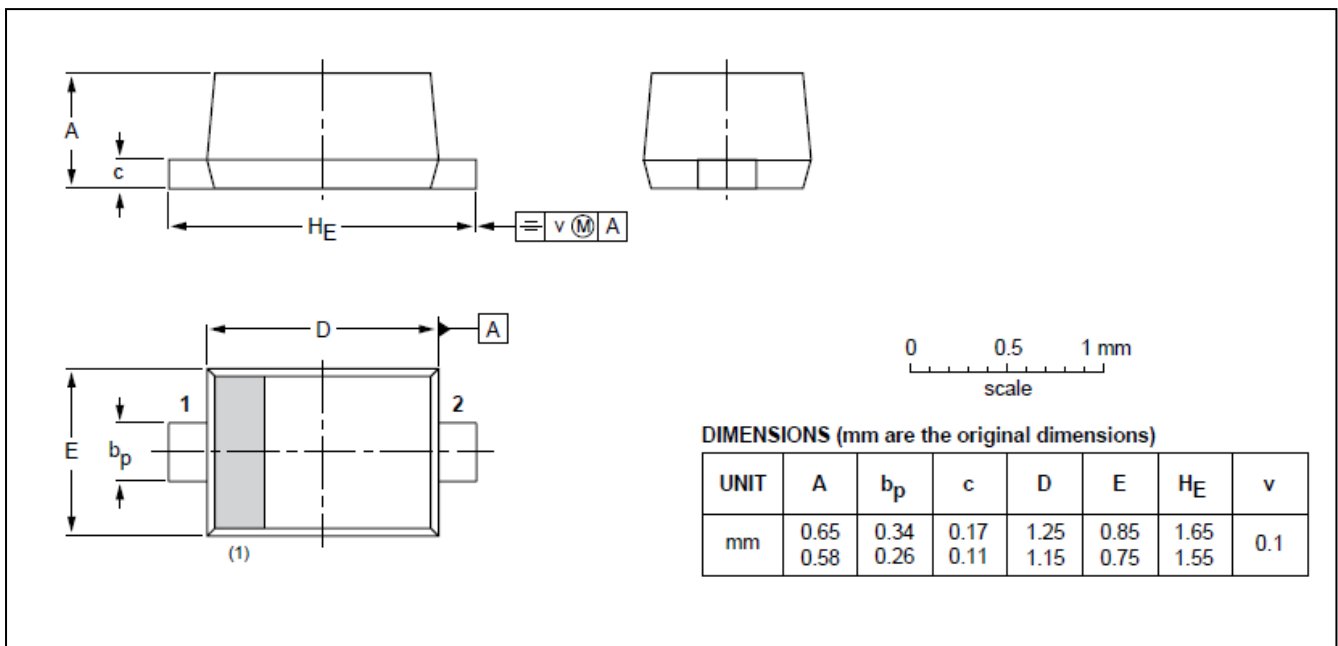
Soldering Parameters



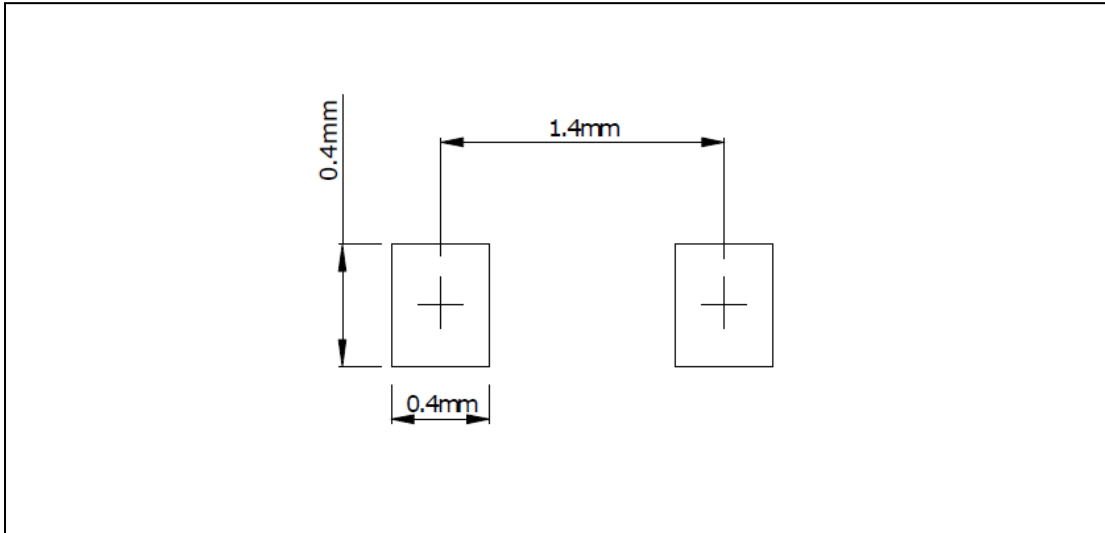
Package Outline

Plastic surface mounted package

SOD523



Soldering Footprint



Package And Marking Information

Device	Package	Shipping	Reel Size
ESD5Zxx	SOD523	3000/Reel	7 inch