

FEATURES

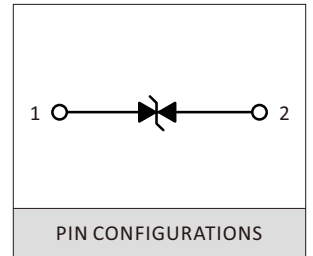
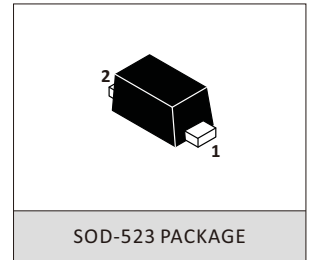
- > 100 Watts Peak Pulse Power per Line (tp=8/20μs)
- > Protects one bidirectional I/O or power line
- > Low clamping voltage
- > Working voltages: 5V
- > Low leakage current

APPLICATIONS

- > Cell Phone Handsets and Accessories
- > Microprocessor based equipment
- > Personal Digital Assistants (PDA'S)
- > Notebooks, Desktops, and Servers
- > Portable Instrumentation
- > Peripherals
- > Pagers

IEC COMPATIBILITY

- > IEC61000-4-2 (ESD) ±30kv (air), ±30kv (contact)
- > IEC61000-4-4 (EFT) 40A (5/50ns)



MAXIMUM RATINGS AND CHARACTERISTICS Ratings at 25°C ambient temperature unless otherwise specified.

RATING	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp=8/20us waveform).	P _{PPM}	100	Watts
Operating Temperature Range.	T _J	-55~+125	°C
Storage Temperature Range.	T _{STG}	-55~+150	°C

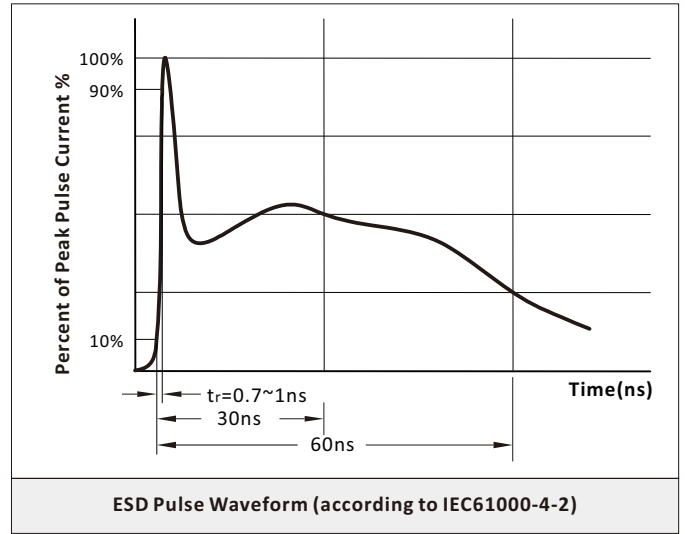
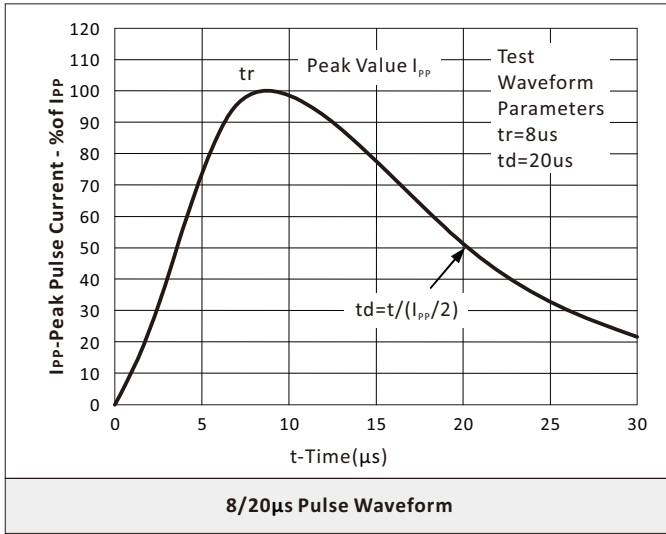
Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

ELECTRICAL CHARACTERISTICS

Part Number	Device Marking Code	Reverse Stand-off Voltage Max. V _{RWM} (V)	Breakdown Voltage Min. V _{BR} (V)	Test Current I _T (mA)	Peak Pulse Current V _C (V) Max. @A	Junction Capacitance Typ. C _T (PF)	Reverse Leakage Max. IR(μA)
SE5D10B5.0A	5C	5.0	6.0	1	16 8	10	1

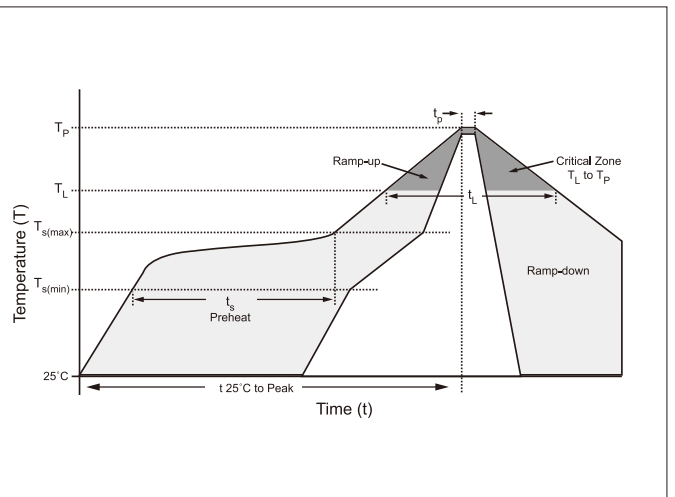


CHARACTERISTIC CURVES



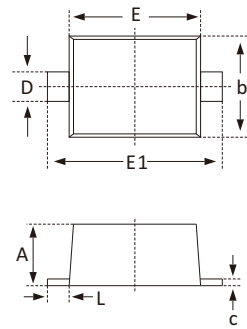
REFLOW PROFILE

Reflow Condition		Lead-free assembly
Pre Heat	Temperature Min (Ts(min))	150°C
	Temperature Max (Ts(max))	200°C
	Time (min to max) (ts)	60 – 180 secs
Average ramp up rate (Liquidus Temp (TL) to peak)		3°C/second max
Ts(max) to TL - Ramp-up Rate		3°C/second max
Reflow	Temperature (TL) (Liquidus)	217°C
	Time (min to max) (tl)	60 – 150 seconds
Peak Temperature (TP)		260°C
Time within 5°C of actual peak Temperature (tp)		20 – 40 seconds
Ramp-down Rate		6°C/second max
Time 25°C to peak Temperature (TP)		8 minutes Max.
Do not exceed		260°C



SOD-523 PACKAGE INFORMATION

OUTLINE DIMENSIONS				
DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	0.50	0.70	0.020	0.028
b	0.25	0.35	0.010	0.014
c	0.07	0.20	0.0028	0.0079
D	0.70	0.90	0.028	0.035
E	1.10	1.30	0.043	0.051
E1	1.50	1.70	0.059	0.067
L	0.15	0.25	0.006	0.010



The diagram shows two views of the SOD-523 package. The top view is a square with dimensions E (width), b (height), D (lead width), and E1 (total width including leads). The bottom view is a side profile showing dimensions A (height), L (lead length), and c (lead thickness).

RECOMMENDED PAD LAYOUT DIMENSIONS

PAD LAYOUT DIMENSIONS		
DIM	MILLIMETERS	INCHES
A	1.40	0.0547
B	0.40	0.0157
C	0.40	0.0157



The diagram shows a square pad layout with dimensions A (width), B (width of the inner square), and C (height of the inner square).

ORDERING INFORMATION

Part Number	Component Package	QTY/Reel	Reel Size
SE5D10B5.0A	SOD-523	3000PCS	7"



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