

**FEATURES**

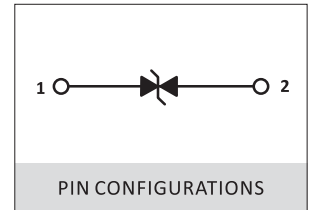
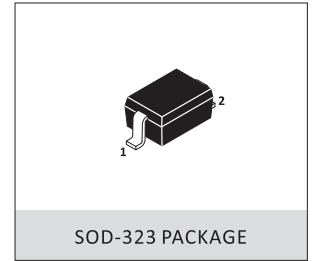
- > 250 Watts Peak Pulse Power per Line (tp=8/20μs)
- > Protects one bidirectional I/O line
- > Low clamping voltage
- > Working voltages: 5V
- > Low leakage current

**APPLICATIONS**

- > Microprocessor based equipment
- > Personal Digital Assistants (PDA's)
- > Parallel & Serial Port Protection
- > Portable Instrumentation
- > Microcontroller Input Protection
- > ISDN S/T Interface
- > WAN/LAN Equipment

**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.

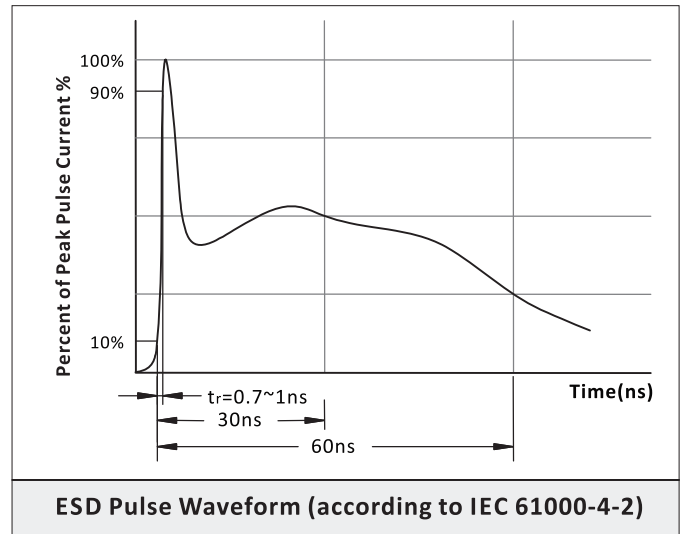
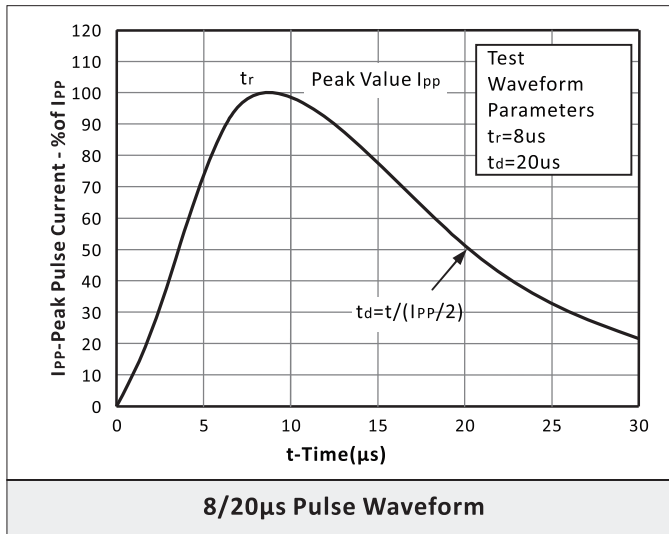
RATING	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp=8/20μs waveform).	PPPM	250	Watts
Operating Temperature Range.	TJ	-55~+125	°C
Storage Temperature Range.	TSTG	-55~+150	°C

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**

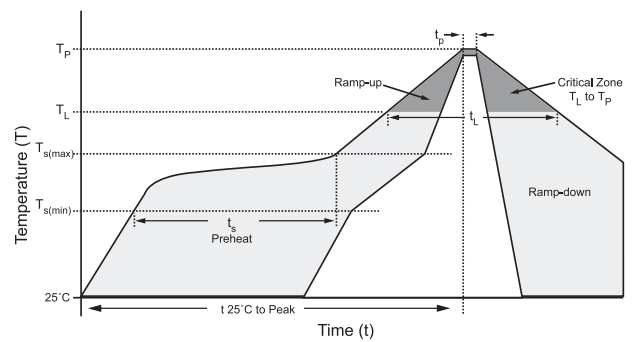
Part Number	Device Marking Code	V <sub>RWM</sub> (V)	V <sub>BR</sub> (V)	I <sub>T</sub> (mA)	V <sub>c</sub> (V)	V <sub>c</sub> (V)		C <sub>T</sub> (PF)	I <sub>R</sub> (μA)
		Max.	Min.		Max.	Max.	@A	Typ.	Max.
SE3D25B5.0LA	5LW	5.0	6.0	1	9.8	20	13	8	0.1

**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-323 PACKAGE INFORMATION**

OUTLINE DIMENSIONS				
DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	1.60	1.90	0.063	0.075
B	1.15	1.45	0.045	0.057
C	2.30	2.70	0.090	0.106
D	0.80	1.10	0.031	0.043
E	0.25	0.40	0.010	0.016
F	0.089	0.20	0.003	0.008
H	-	0.10	-	0.004
L	0.08	-	0.003	-

**RECOMMENDED PAD LAYOUT DIMENSIONS**

PAD LAYOUT DIMENSIONS				
DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	2.87	3.12	0.113	0.123
B	0.66	0.91	0.026	0.036
C	0.66	0.91	0.026	0.036

**ORDERING INFORMATION**

Part Number	Component Package	QTY/Reel	Reel Size
SE3D25B5.0LA	SOD-323	3000PCS	7"

## **CONTACT US**

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