

FEATURES

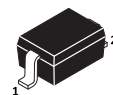
- > 150 Watts Peak Pulse Power per Line ($t_p=8/20\mu s$)
- > Protects one bidirectional I/O line
- > Low clamping voltage
- > Working voltages: 5.0V
- > Low leakage current

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) $\pm 15kV$ (air), $\pm 8kV$ (contact)
- > IEC61000-4-4 (EFT) 40A (5/50ns)



SOD-323 PACKAGE



PIN CONFIGURATIONS

MAXIMUM RATINGS AND CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

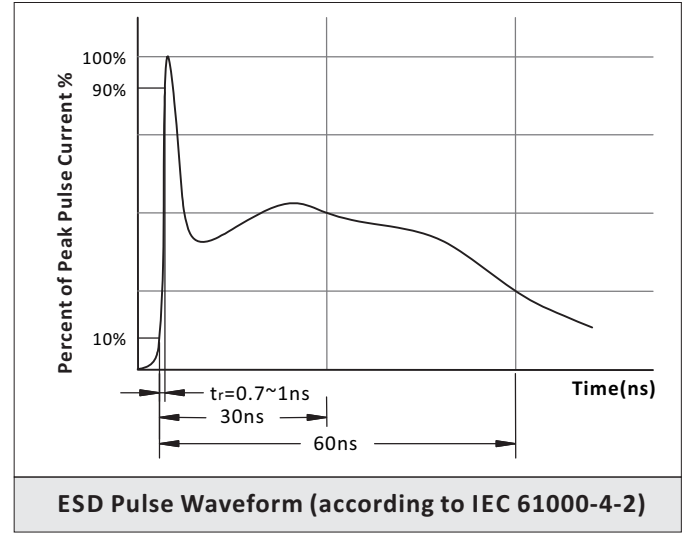
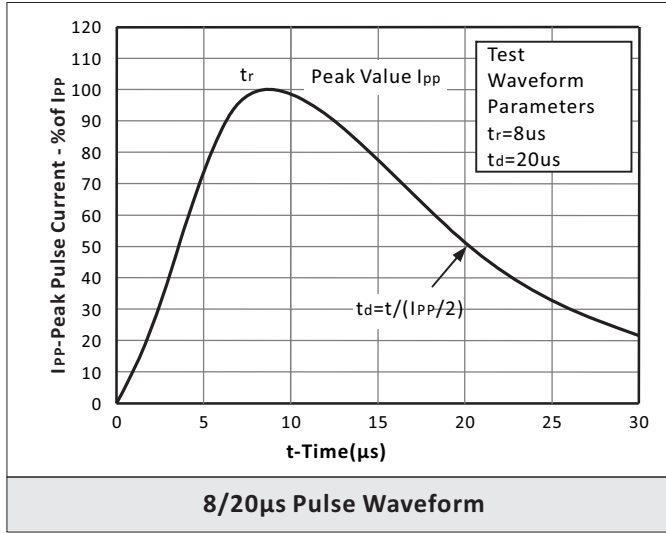
RATING	SYMBOL	VALUE	UNITS
Peak Pulse Power ($t_p=8/20\mu s$ waveform).	PPM	150	Watts
Operating Temperature Range.	T _J	-55~+125	°C
Storage Temperature Range.	T _{STG}	-55~+150	°C
Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.			

ELECTRICAL CHARACTERISTICS

Part Number	Device Marking Code	V _{RWM} (V)	V _{BR} (V)	I _T (mA)	V _C (V) @5A	V _C (V)	C _T (PF)	I _R (μA)
		Max.	Min.		Max.	Max. @A	Typ.	Max.
SE3D15B5.0A	3M	5.0	5.6	1	11.6	16 8.0	10	0.1

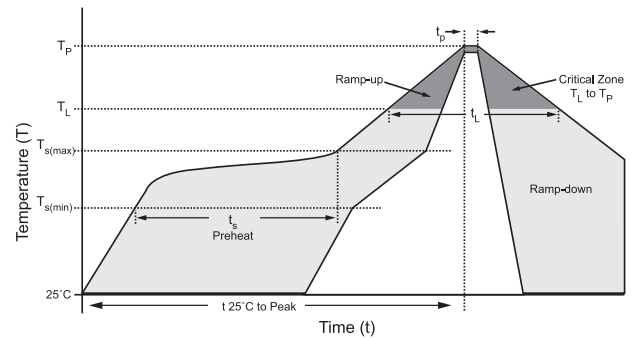


CHARACTERISTIC CURVES



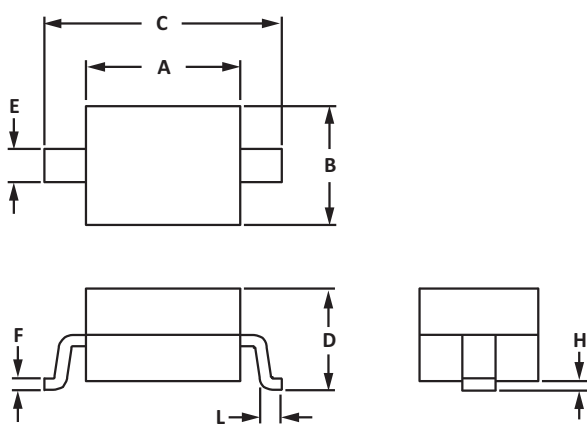
REFLOW PROFILE

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

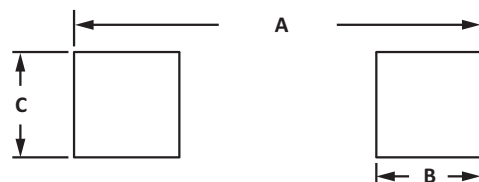
OUTLINEDIMENSIONS				
DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	1.60	1.90	0.063	0.075
B	1.15	1.45	0.045	0.057
C	2.30	2.70	0.090	0.106
D	0.80	1.10	0.031	0.043
E	0.25	0.40	0.010	0.016
F	0.089	0.20	0.003	0.008
H	-	0.10	-	0.004
L	0.08	-	0.003	-



Technical drawing of a component showing dimensions A, B, C, D, E, F, H, and L. The drawing includes a top view, a side view, and a cross-sectional view. Dimensions are labeled with arrows indicating the measurement direction.

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



The diagram illustrates a square pad layout with three dimensions labeled A, B, and C. Dimension A is the horizontal width, indicated by a double-headed arrow above the square. Dimension B is the horizontal width of the inner square, indicated by a double-headed arrow below the inner square. Dimension C is the vertical height, indicated by a double-headed arrow to the left of the square. The outer square represents the total pad area, and the inner square represents the central feature.

ORDERING INFORMATION

Part Number	Component Package	QTY/Reel	Reel Size
SE3D15B5.0A	SOD-323	3000PCS	7"



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