



SEBLCxx/C

Ultralow Capacitance TVS Array

General Description

The Ultralow Capacitance Transient Voltage Suppressors are designed to low voltage, integrated circuits from transients caused by electrostatic discharge (ESD), electrical fast transients (EFT), Surge and other induced voltages.

Applications

- Ethernet – 10/100/1000 Base T
- Cellular Phones
- Handheld – Wireless Systems
- Personal Digital Assistant(PDA)
- USB Interface

IEC61000-4-2(ESD) 15kV(air), 8kV(Contact)

IEC61000-4-4(EFT) 40A(5/50ns)

IEC61000-4-5(Surge)24A(8/20us),Level2(Line-G round)& Level 2(Line- Line)

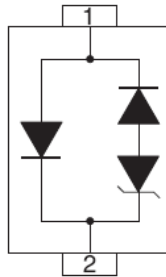
Features

- 350 W Peak Pulse Power per Line ($t_p=8/20\mu s$)
- Unidirectional & Bidirectional Configurations
- Replacement for MLV (0805)
- Protects One Power or I/O Port
- ESD Protection > 40 kilovolts
- Low Clamping Voltage
- Available in Multiple Voltage Type Ranging from 3V to 8 V
- Ultra Low Capacitance:3pF Typical
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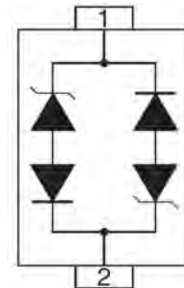
SOD-323



UNIDIRECTIONAL



BIDIRECTIONAL



Absolute Maximum Ratings @ 25°C Unless Otherwise Specified

Parameter	Symbol	Value	Units
Peak Pulse Power ($t_p = 8/20\mu s$) - See Fig1.	P_{PP}	350	W
Storage Temperature Range	T_{STG}	-55 to 150	°C
Operating Junction Temperature Range	T_J	-55 to 150	°C

Electrical Characteristics Per line @ 25°C Unless Otherwise Specified

Part Numbers	V _{BR}			I _T	V _{RM}	I _{RM}	V _F	I _F	C
	Min.	Typ.	Max.				Max.		Typ. 0v bias
	V	V	V				mA		V
SEBLC03	3.3	3.8	4.5	1	3	1	1.25	200	3
SEBLC03C	3.3	3.8	4.5	1	3	1	1.25	200	3
SEBLC05	6.1	6.7	7.2	1	5	1	1.25	200	3
SEBLC05C	6.1	6.7	7.2	1	5	1	1.25	200	3
SEBLC08C	8.6	9.5	10.2	1	8	1	1.25	200	3
SEBLC12C	13.5	14.6	15.7	1	12	1	1.25	200	3

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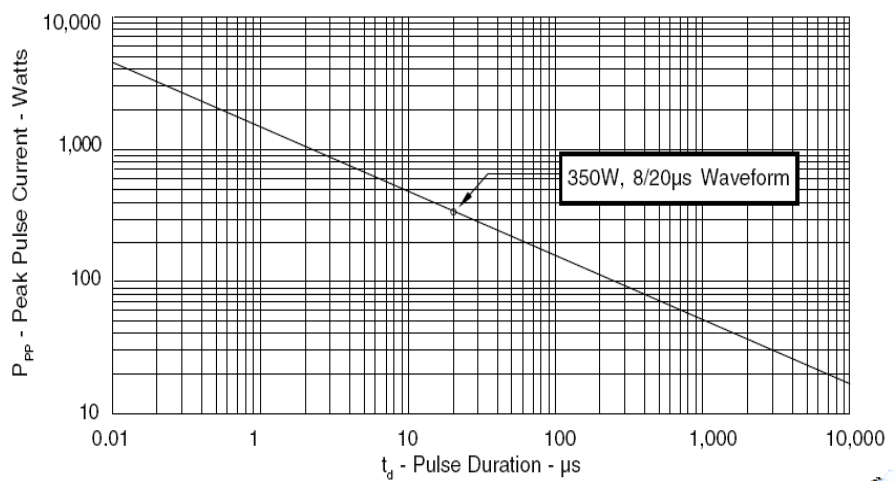


Fig1. Peak Pulse Power VS Pulse Time

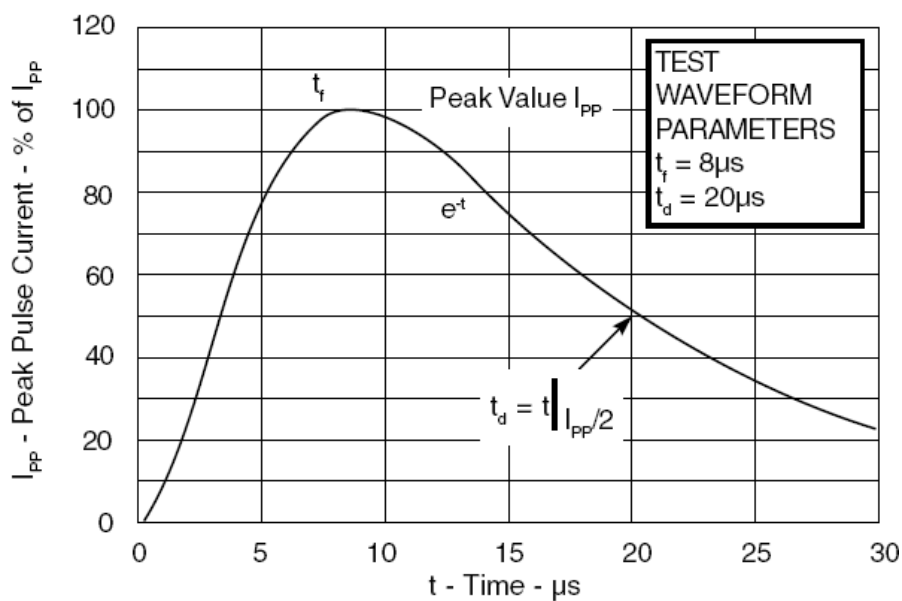
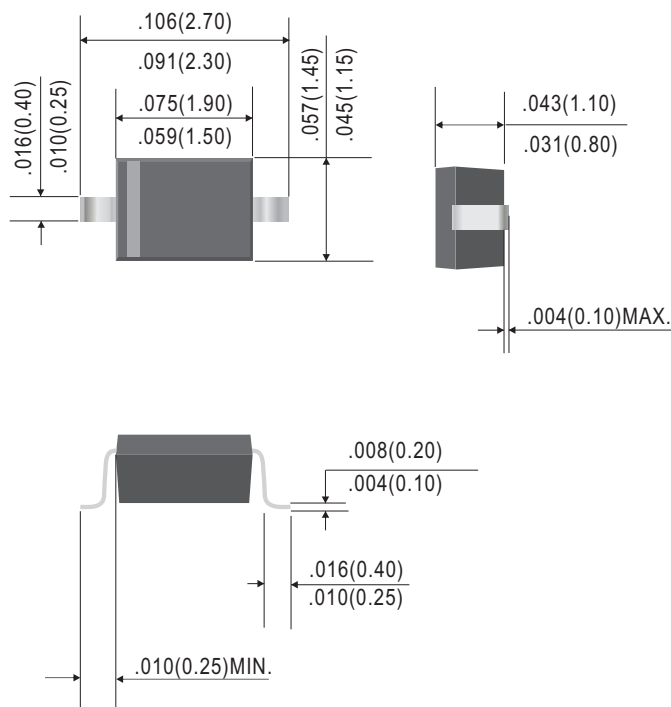


Fig2. Pulse Wave Form

Ultraslow Capacitance TVS Array
SOD-323 Mechanical Data


Dimensions in inches and (millimeters)

Marking

Type number	Marking code
SEBLC03 / SEBLC03C	03 / 03C
SEBLC05 / SEBLC05C	05 / 05C
SEBLC08C	08C
SEBLC12C	2C

Ordering Information:

Device PN	Packing
Part Number -T ⁽¹⁾ G ⁽²⁾ -WS	Tape&Reel: 3 Kpcs/Reel

Note: (1) Packing code, Tape & Reel Packing

(2) RoHS product for packing code suffix "G" ; Halogen free product for packing code suffix "H"

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