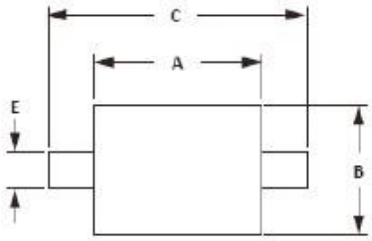
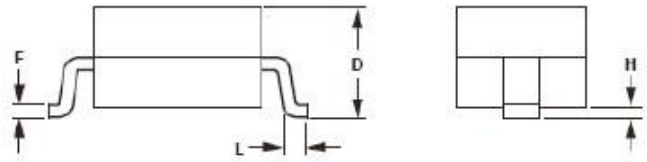
SEBLC Series

Ultraslow Capacitance TVS Array

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.





Features

- 350 W Peak Pulse Power per Line (tp=8/20□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 24V
- Ultra Low Capacitance:3pF Typical
- RoHS compliant package

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-Ground)& Level 2(Line- Line)

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	2.39	2.70	0.094	0.106
D	0.80	1.10	0.031	0.043
E	0.25	0.40	0.010	0.016
F	0.10	0.20	0.004	0.008
H	-	0.10	-	0.004
L	0.20	-	0.008	-

NOTES
1. Controlling dimension: millimeters.
2. Dimensioning and tolerances per ANSI Y14.5M, 1985.
3. Dimensions are exclusive of mold flash and metal burrs.

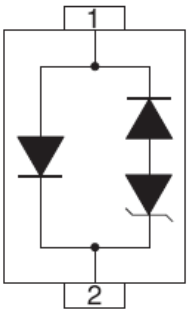
Packing & Order Information

3,000/Reel

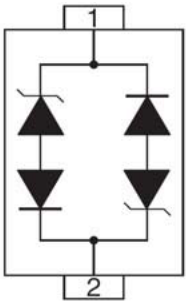
RoHS COMPLIANT

Graphic symbol

UNIDIRECTIONAL



BIDIRECTIONAL



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MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Absolute Maximum Ratings @ 25°C Unless Otherwise Specified

Symbol	Parameter	Value	Unit
P_{PP}	Peak Pulse Power (tp = 8/20μs) - See Fig1.	350	W
T_{STG}	Storage Temperature Range.	-55 to + 150	°C
T_J	Operating Junction Temperature Range	-55 to + 150	°C

Electrical Characteristics Per line @ 25°C Unless Otherwise Specified

Part Numbers	VBR			IT	VRM	IRM	VF	IF	C
	Min	Typ	Max				Max.		Typ. 0v bias
	V	V	V	mA	V	μA	V	mA	pF
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
SEBLC08	8.6	9.5	10.2	1	8	1	1.25	200	3
SEBLC08C	8.6	9.5	10.2	1	8	1	1.25	200	3
SEBLC12	13.5	14.6	15.7	1	12	1	1.25	200	3
SEBLC12C	13.5	14.6	15.7	1	12	1	1.25	200	3
SEBLC15	16.7	17.8	18.9	1	15	1	1.25	200	3
SEBLC15C	16.7	17.8	18.9	1	15	1	1.25	200	3
SEBLC24	26.7	27.8	28.9	1	24	1	1.25	200	3
SEBLC24C	26.7	27.8	28.9	1	24	1	1.25	200	3

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■RATING AND CHARACTERISTIC CURVES (P6SMB SERIES)

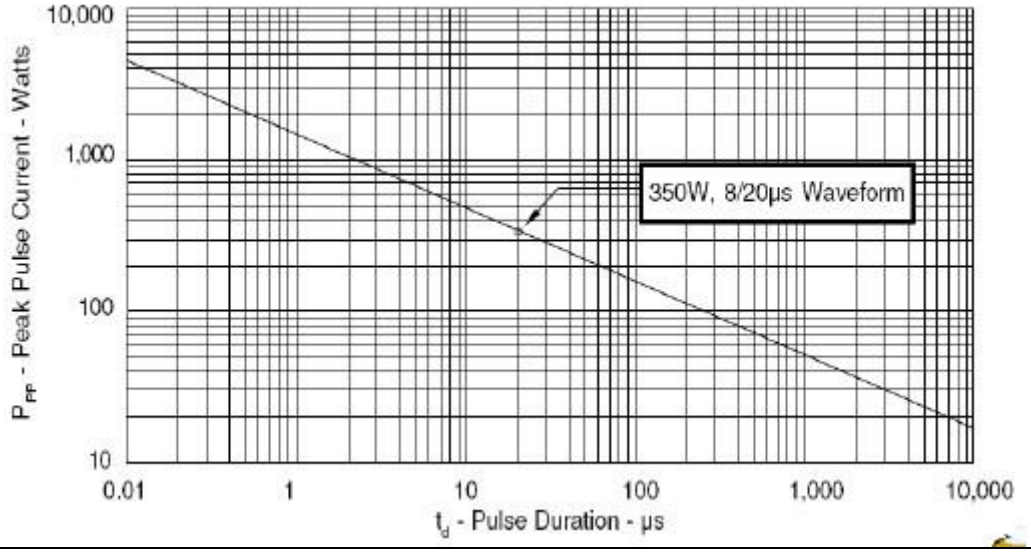

Fig1. Peak Pulse Power VS Pulse Time

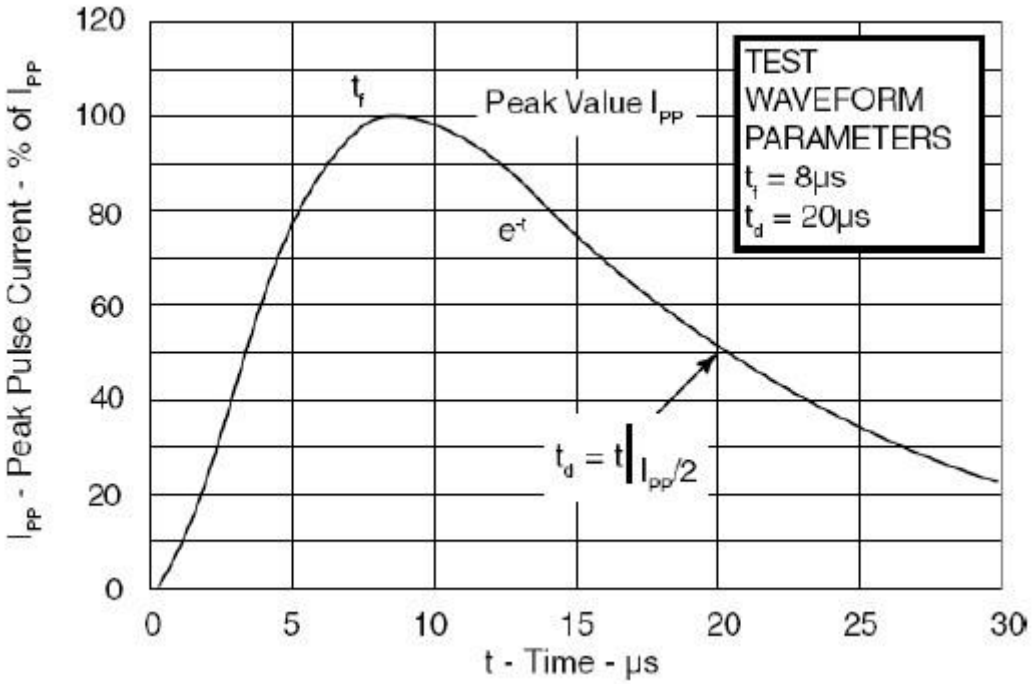

Fig2. Pause Wave Form

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