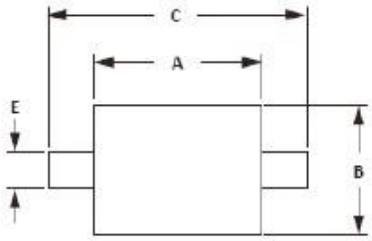
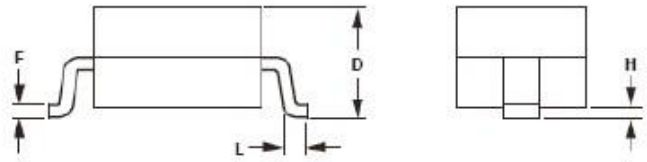
SEBLC Series

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.

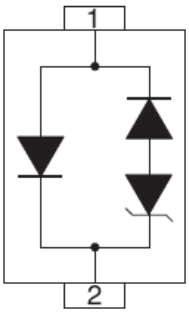
Packing & Order Information

3,000/Reel

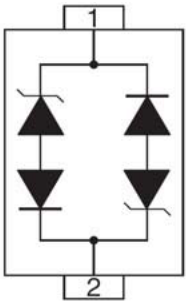
RoHS COMPLIANT

Graphic symbol

UNIDIRECTIONAL



BIDIRECTIONAL



©Bruckewell Technology Corporation Rev. A -2014

SEBLC Series

Ultraslow Capacitance TVS Array

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

©Bruckewell Technology Corporation Rev. A -2014

SEBLC Series

Ultraslow Capacitance TVS Array

■RATING AND CHARACTERISTIC CURVES (P6SMB SERIES)

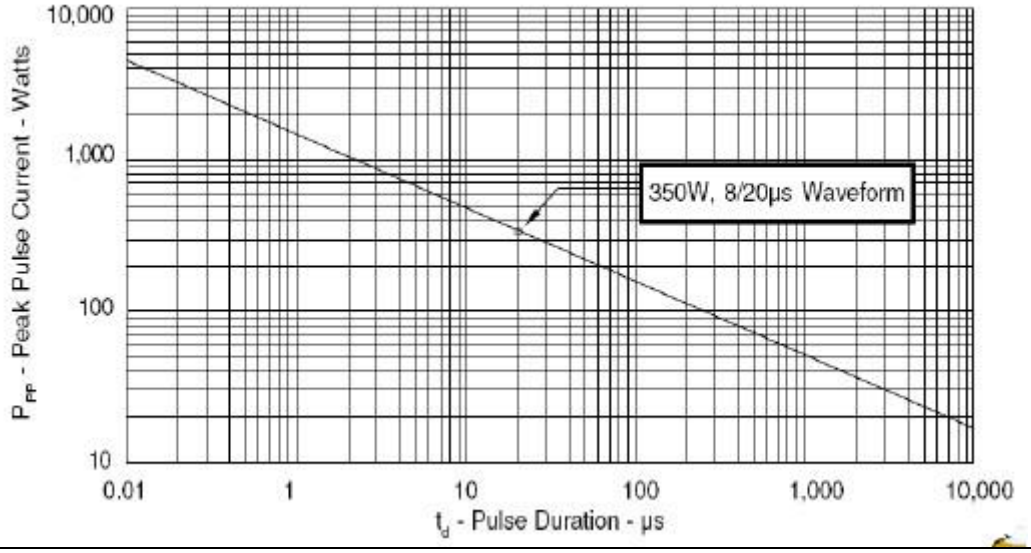


Fig1. Peak Pulse Power VS Pulse Time

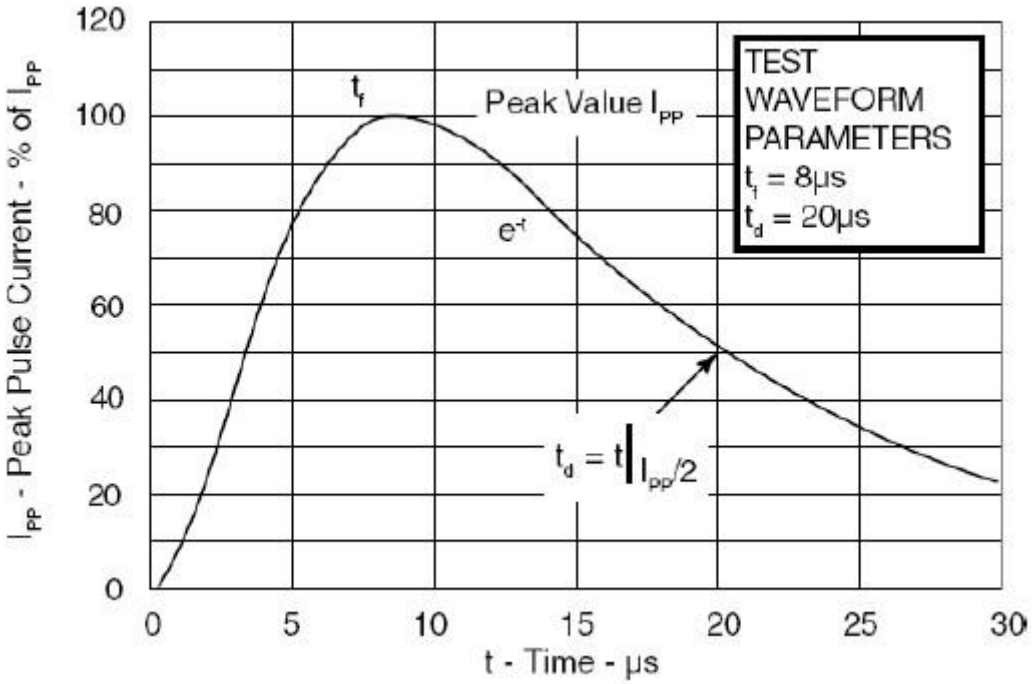


Fig2. Pause Wave Form

©Bruckewell Technology Corporation Rev. A -2014

SEBLC Series

Ultraslow Capacitance TVS Array

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Bruckewell Technology Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, “Bruckewell”), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Bruckewell makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Bruckewell disclaims

(i) Any and all liability arising out of the application or use of any product.

(ii) Any and all liability, including without limitation special, consequential or incidental damages.

(iii) Any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Bruckewell’s knowledge of typical requirements that are often placed on Bruckewell products in generic applications.

Such statements are not binding statements about the suitability of products for a particular application. It is the customer’s responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and/or specifications may vary in different applications and performance may vary over time.

Product specifications do not expand or otherwise modify Bruckewell’s terms and conditions of purchase, including but not limited to the warranty expressed therein.

©Bruckewell Technology Corporation Rev. A -2014