

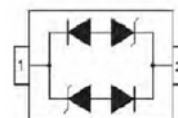
PRIMARY CHARACTERISTICS

P_{PP}	350W
V_{RWM}	3V, 5V, 8V
I_{PP}	18.2A, 17.6A, 16.5A
C	3pF
$T_{J,Max}$	150°C

SOD-323 PACKAGE

Marking : Please See Table

Ex : SEBLC05C



FEATURES

- 350 W Peak Pulse Power per Line (tp=8/20μs)
- 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 8V
- Ultra Low Capacitance: 3pF Typical
- Moisture Sensitivity Level 1

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)

GENERAL DESCRIPTION

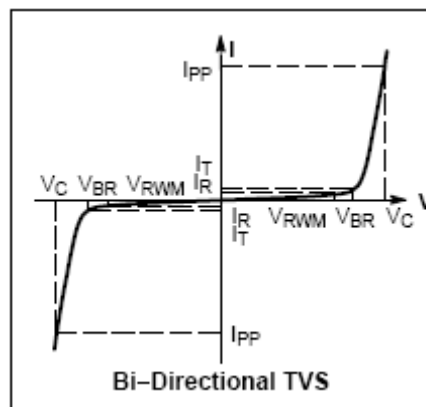
The Ultralow Capacitance Transient Voltage Suppressors are designed to low voltage, integrated circuits from transients caused by electrostatic discharge (ESD), electrical fast transients (EFT), Surge and other induced voltages.

Absolute Maximum Ratings @ 25°C Unless Otherwise Specified

Parameter	Symbol	Value	Units
Peak Pulse Power (tp = 8/20μs) - 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

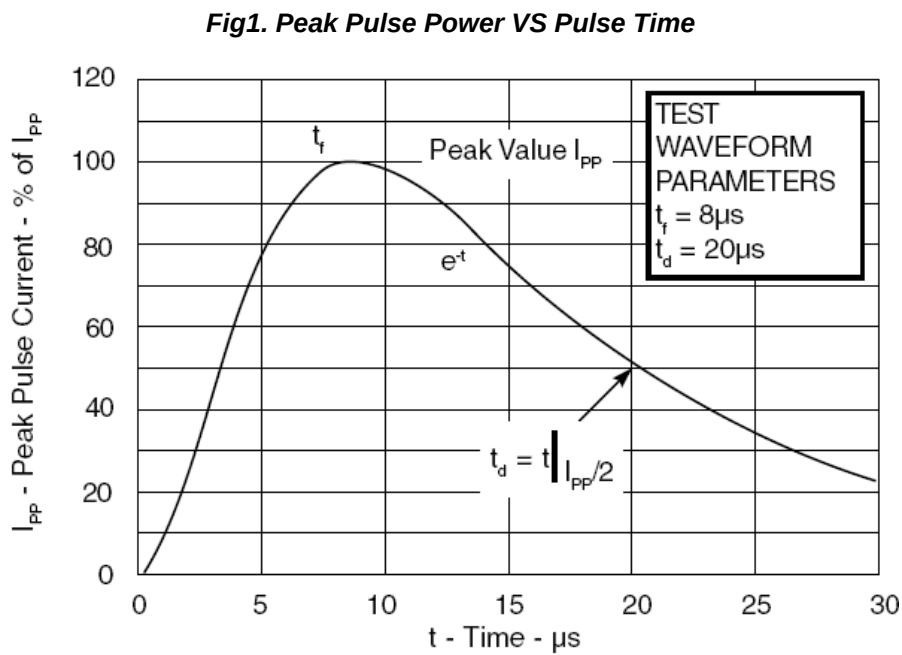
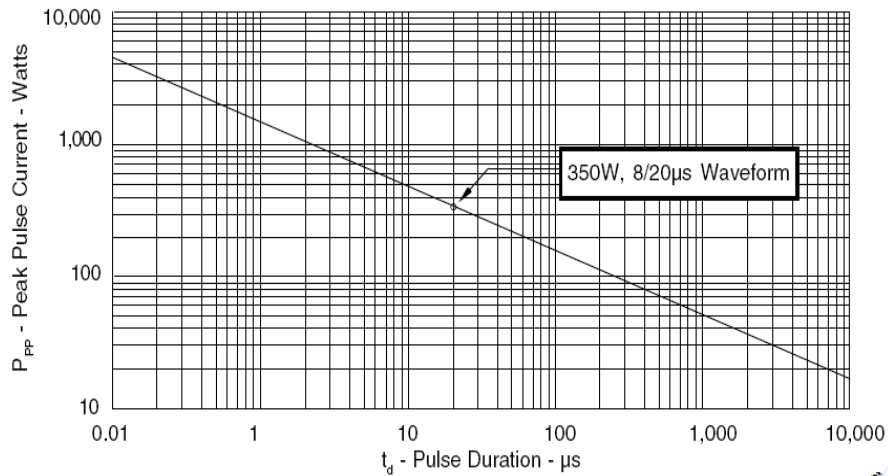
ELECTRICAL CHARACTERISTICS (Ta = 25°C unless otherwise noted)

Symbol	Parameter
I_{PP}	Maximum Reverse Peak Pulse Current
V_C	Clamping Voltage @ I_{PP}
V_{RWM}	Working Peak Reverse Voltage
I_R	Maximum Reverse Leakage Current @ V_{RWM}
V_{BR}	Breakdown Voltage @ I_T
I_T	Test Current
C	Max. Capacitance @ $V_R=0$ and $f=1\text{MHz}$



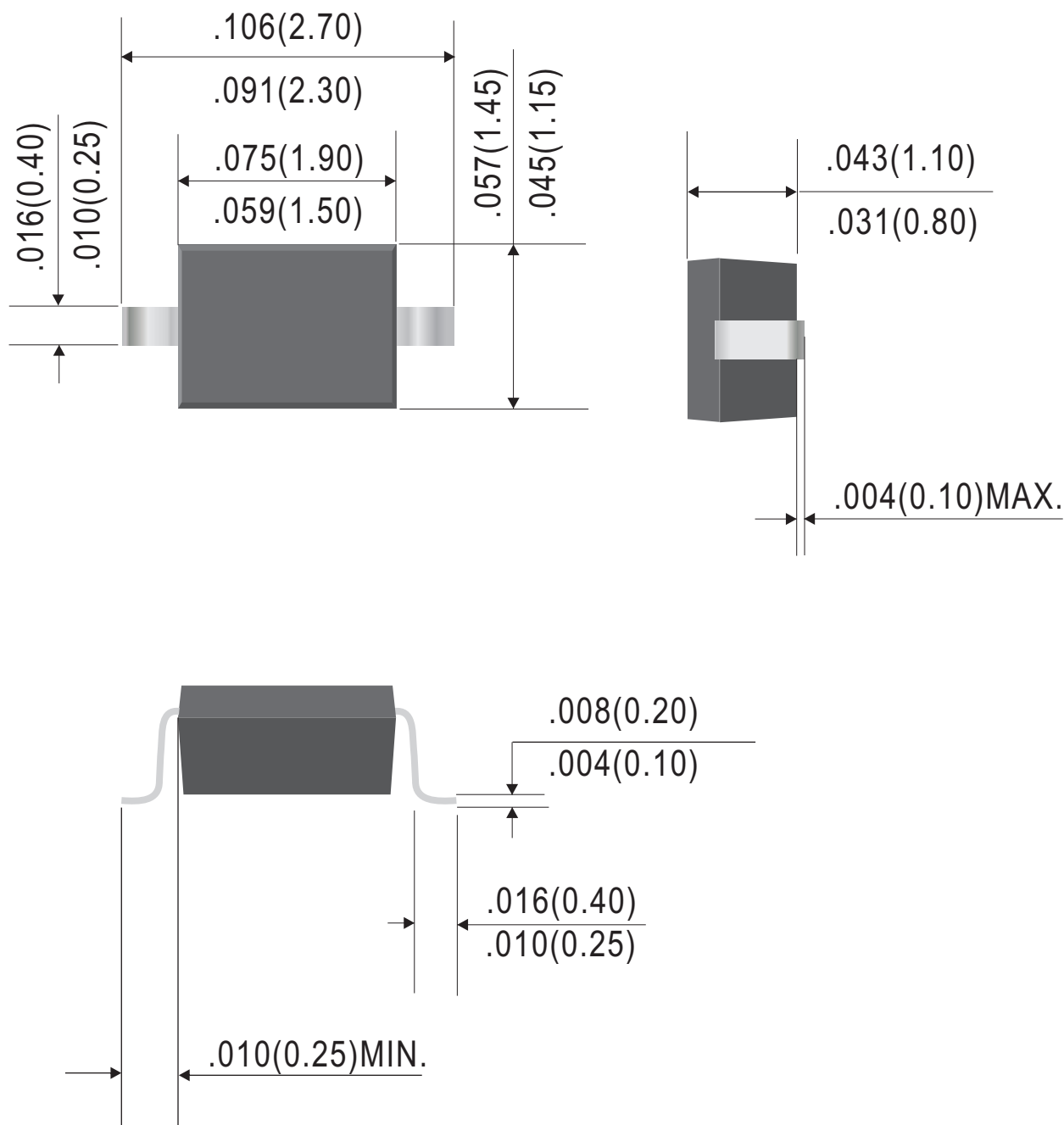
Device	Device Marking	V_{RWM} (V)	I_R (μA) @ V_{RWM}	V_{BR} (V) @ I_T (Note 1)		I_T mA	V_F V	C (pF)
		Max	Max	Min	Max			
SEBLC03C	03C	3.0	1.0	3.3	4.5	1.0	1.25	3.0
SEBLC05C	05C	5.0	1.0	6.1	7.2	1.0	1.25	3.0
SEBLC08C	08C/HC	8.0	1.0	8.6	10.2	1.0	1.25	3.0
SEBLC12C	12 C	12.0	1.0	13.6	15.7	1.0	1.25	3.0
SEBLC15C	15 C	15.0	1.0	16.7	18.9	1.0	1.25	3.0
SEBLC24C	24 C	24.0	1.0	26.7	28.9	1.0	1.25	3.0

1. V_{BR} is measured with a pulse test current I_T at an ambient temperature of 25°C.



Outline Drawing

SOD-323

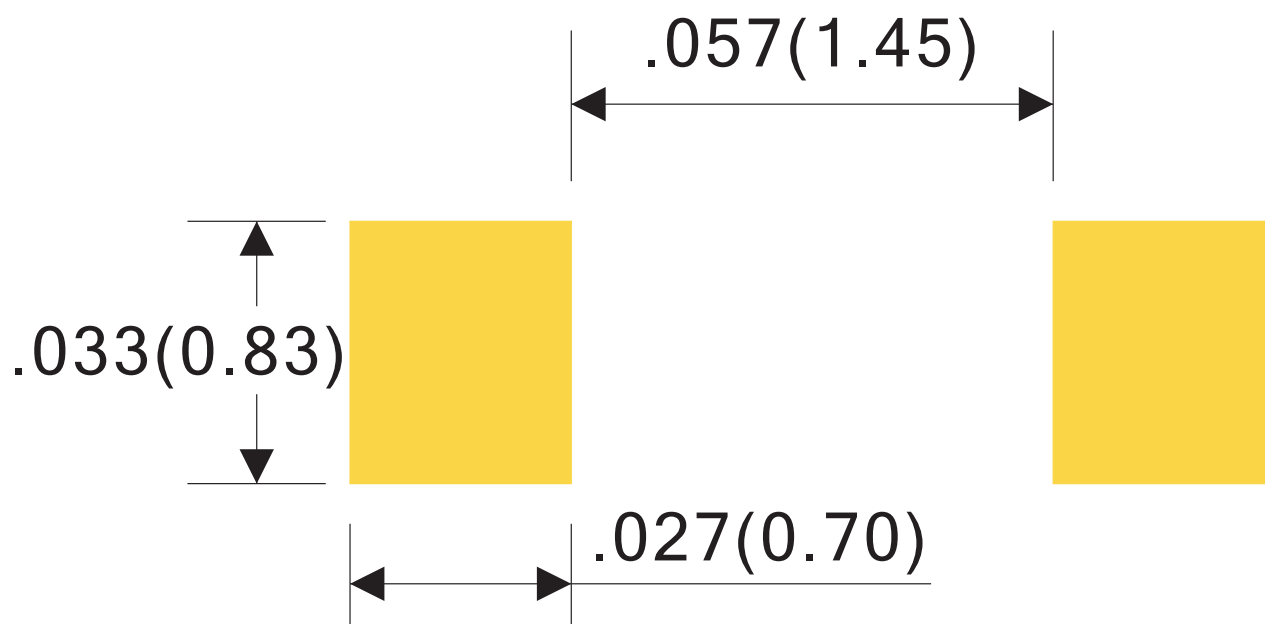


Dimensions in inches and (millimeters)

Rev.C

Suggested Soldering Pad Layout

SOD-323



Dimensions in inches and (millimeters)

RevA

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"

Disclaimer

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