

FEATURES

- Protects one I/O line (bidirectional)
- Low clamping voltage
- Working voltages : 3V, 5V, 8V, 12V, 15V, 18V , 20V , 24V
- Low leakage current
- Response Time is < 1 ns

APPLICATIONS

- Cell Phone Handsets and Accessories
- Microprocessor based equipment
- Personal Digital Assistants (PDA's)
- Notebooks, Desktops, and Servers
- Portable Instrumentation
- Peripherals
- USB Interface

MECHANICAL DATA

- Case : Molded, plastic SOD-323
- Polarity : Shown follows
- Epoxy : UL94-V0 rated flame retardant

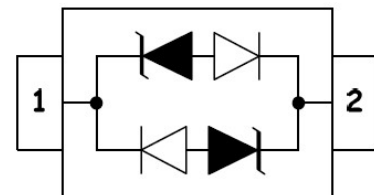
IEC COMPATIBILITY

- IEC61000-4-2 (ESD) ±15kV (air), ±8kV (contact)
- IEC61000-4-4 (EFT) 40A (5/50ns)
- IEC61000-4-5 (Lightning) 12A (8/20µs)

SOD-323 PACKAGE



SCHEMATIC & PIN CONFIGURATION



DESCRIPTION

- The SEBLCxxCI Series are ultra low capacitance transient voltage suppressor arrays, designed to protect applications such as portable electronics and SMART phones. This series is available in both unidirectional and bidirectional configurations and is rated at 350 Watts for an 8/20µs wave shape.
- The SEBLCxxCI and Series meets IEC 61000-4-2 (ESD) and IEC 61000-4-4 (EFT) requirements. At higher operating frequencies or faster edge rates, insertion loss and signal integrity are a major concern. This series offers a ultra low capacitance and low leakage current in a miniature SOD-323 package.



ABSOLUTE MAXIMUM RATING

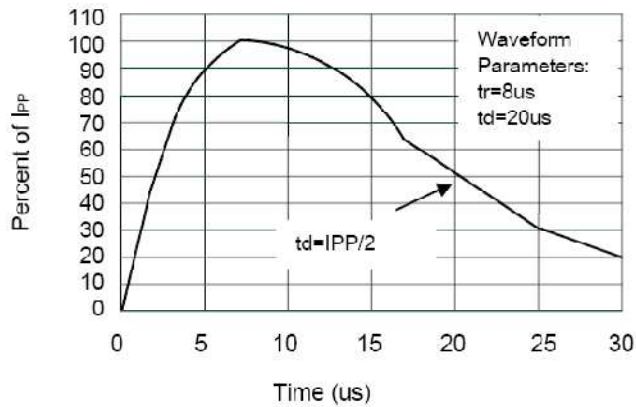
Symbol	Parameter	Value	Units
V_{ESD}	ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	± 15 ± 8	kV
P_{PP}	Peak Pulse Power (8/20 μ s)	350	W
T_{OPT}	Operating Temperature	-55/+150	°C
T_{STG}	Storage Temperature	-55/+150	°C
T_L	Lead Soldering Temperature	260	°C

ELECTRICAL CHARACTERISTICS (Tamb=25°C)

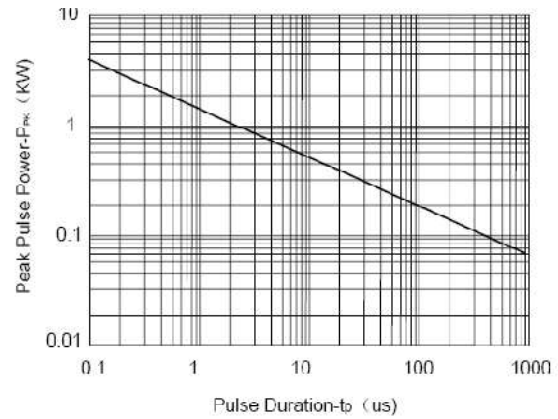
PART NUMBER	DEVICE MARKING	V_{RWM} (V)	$V_B@1mA$ (V)	$V_C@1A$ (V)	$V_C@I_{pp}$ (V)		$V_C@I_{pp}$ (V)		I_R (μ A)	C_T (pF)
		Max	Min	Max	Max	I_{pp} (A)	Max	I_{pp} (A)	Max	Typ.
SEBLC03CI	CC	3.0	4.0	7.0	13.9	8	20.0	20	5	0.8
SEBLC05CI	AC	5.0	6.0	9.8	18.3	8	20.0	18	1	0.8
SEBLC08CI	BC	8.0	8.5	13.4	18.5	8	24.0	18	1	0.8
SEBLC12CI	DC	12.0	13.3	19.0	24.0	6	28.6	12	1	0.8
SEBLC15CI	EC	15.0	16.7	24.0	29.0	5	31.8	10	1	0.8
SEBLC18CI	FC	18.0	20.0	35.0	45.0	5	53.0	7	1	0.8
SEBLC20CI	GC	20.0	22.0	38.0	45.0	4	55.0	7	1	0.8
SEBLC24CI	HC	24.0	26.7	43.0	45.0	3	56.0	6	1	0.8



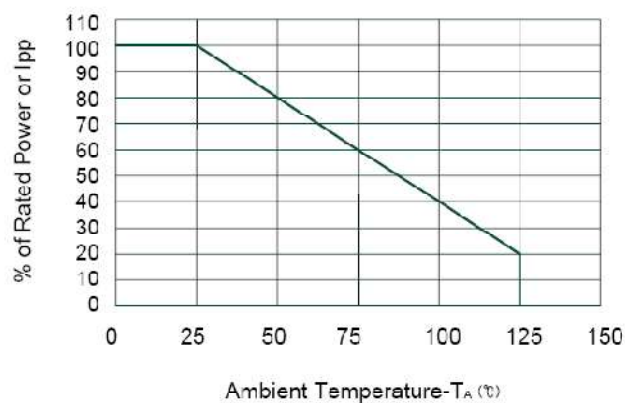
ELECTRICAL CHARACTERISTICS CURVE



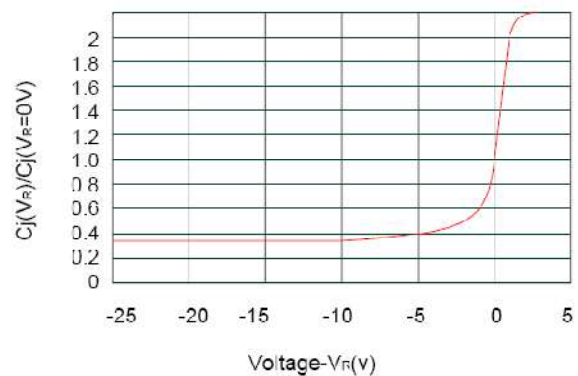
Pulse Waveform



Non-Repetitive Peak Pulse Power vs. Pulse Time



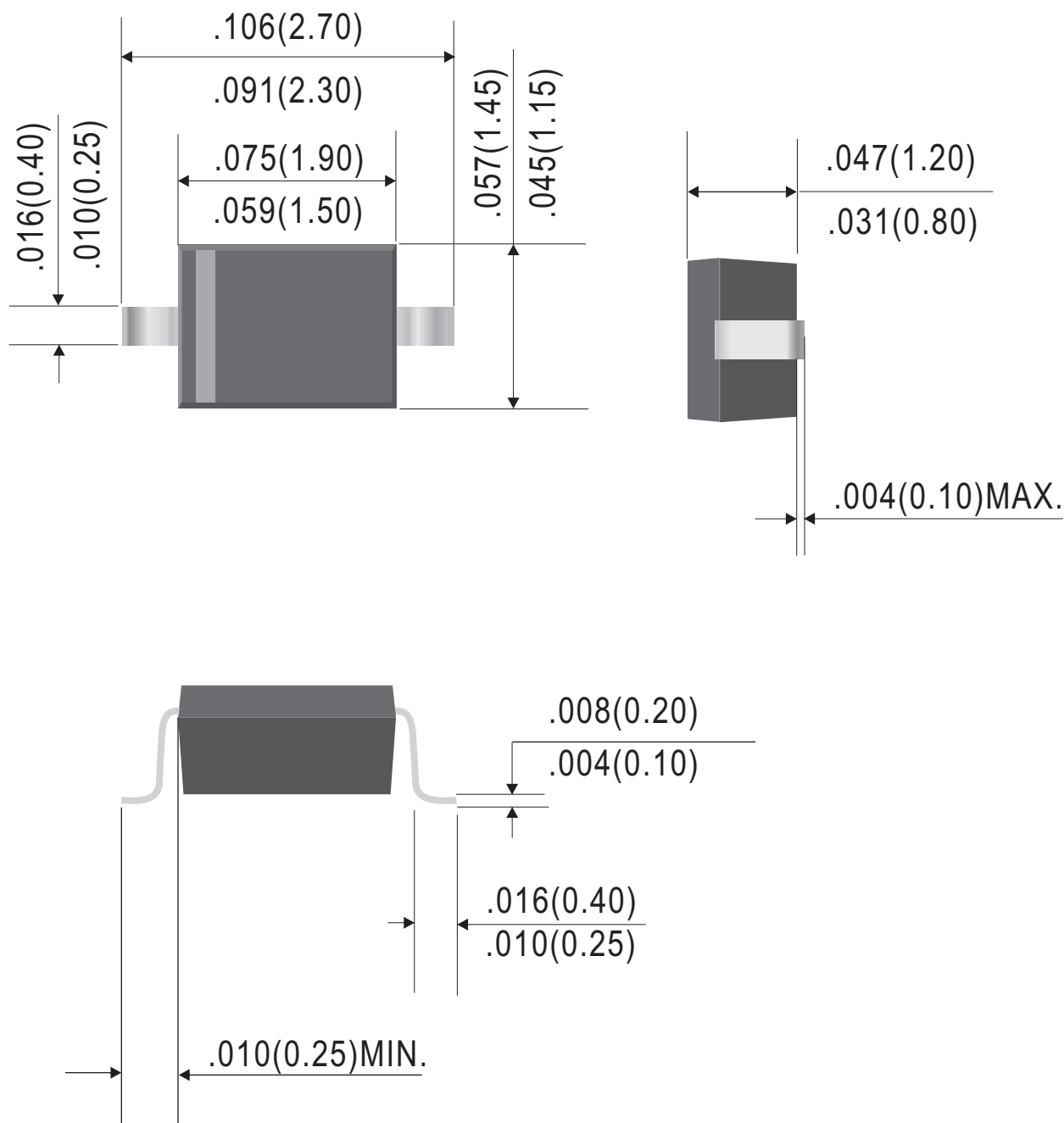
Power Derating Curve



Junction Capacitance vs. Reverse Voltage

Outline Drawing

SOD-323



Dimensions in inches and (millimeters)

Rev.D

Ordering Information:

Device PN	Packing
Part Number -T ⁽¹⁾ G ⁽²⁾ -WS ⁽³⁾	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"

(3) WS : Willas brand abbreviation, Label Type does not display

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