

APPLICATIONS

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

IEC COMPATIBILITY

- ◆ IEC61000-4-2 (ESD) $\pm 15\text{kV}$ (air), $\pm 8\text{kV}$ (contact)
- ◆ IEC61000-4-4 (EFT) 40A (5/50 μs)
- ◆ IEC61000-4-5 (Lightning) 12A (8/20 μs)

FEATURES

- ◆ 350 Watts Peak Pulse Power per Line ($t_p=8/20\mu\text{s}$)
- ◆ Protects one I/O line (bidirectional)
- ◆ Low clamping voltage
- ◆ Working voltages: 3V, 5V, 8V, 12V, 15V, 24V
- ◆ Low leakage current

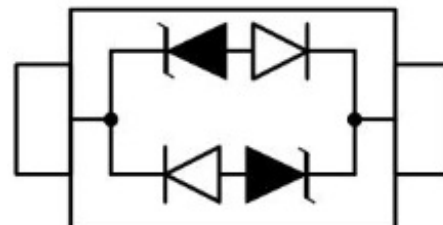
MECHANICAL CHARACTERISTICS

- ◆ JEDEC SOD-323 Package
- ◆ Molding Compound Flammability Rating : UL 94V-O
- ◆ Quantity Per Reel : 3,000pcs

SOD-323



PIN CONFIGURATION



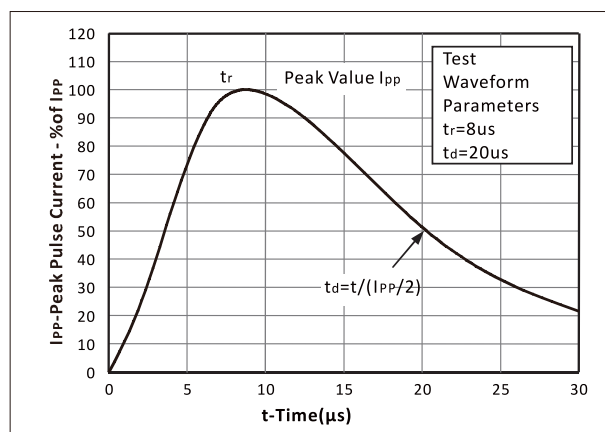
Ultra Low Capacitance TVS Diode Arrays

Typical Characteristics

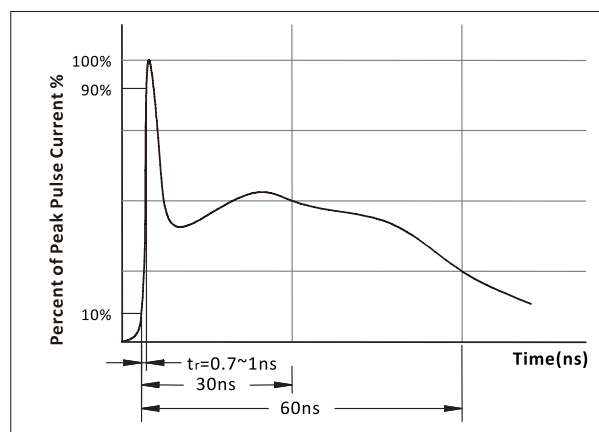
MAXIMUM RATINGS @ 25°C UNLESS OTHERWISE SPECIFIED			
PARAMETER	SYMBOL	VALUE	UNIT
Lead Soldering Temperature	T _L	260(10 sec.)	°C
Operating Temperature Range	T _J	-55~150	°C
Storage Temperature Range	T _{STG}	-55~150	°C

ELECTRICAL CHARACTERISTICS PER LINE @ 25°C UNLESS OTHERWISE SPECIFIED										
PART NUMBER	DEVICE MARKING	P _{pp} (W) tp=8/20us waveform	V _{RWM} (V) Max.	V _B (V) Min.	I _T (mA)	V _C @1A Max.	V _C Max. @A		I _R (uA) Max.	C _T (pF) Typ.
HSBLC03C	CC	315	3.3	4.0	1	7.5	21.0	15	40	1.0
HSBLC05C	AC	350	5.0	6.0	1	9.8	25.0	14	5	1.0
HSBLC08C	BC	312	8.0	8.5	1	13.4	26.0	12	2	1.0
HSBLC12C	DC	210	12.0	13.3	1	19.0	30.0	7	1	1.0
HSBLC15C	EC	210	15.0	16.7	1	24.0	35.0	6	1	1.0
HSBLC24C	HC	168	24.0	26.7	1	43.0	56.0	3	1	1.0

Characteristics Curves



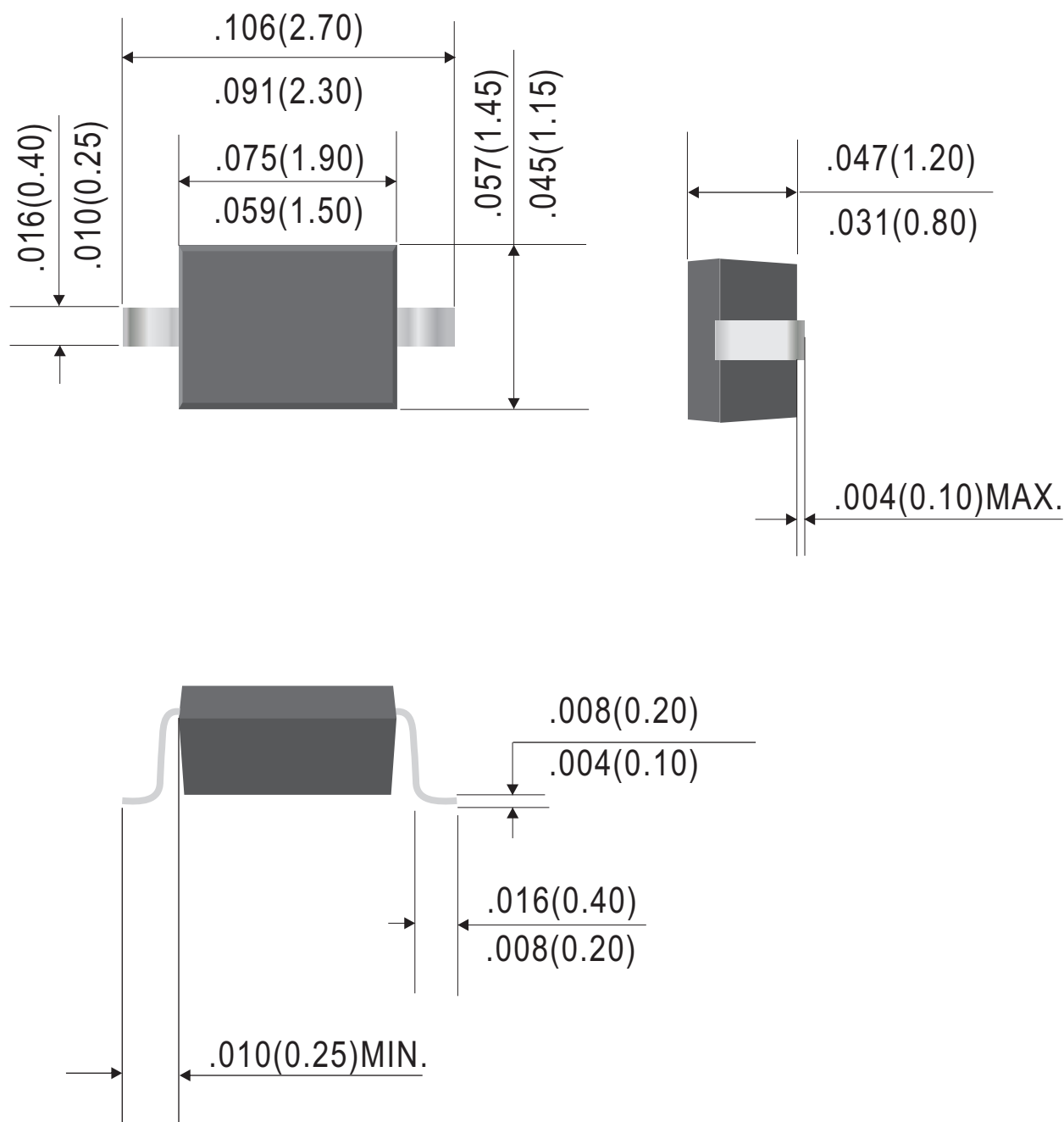
8/20µs Pulse Waveform



ESD Pulse Waveform (according to IEC 61000-4-2)

Outline Drawing

SOD-323



Dimensions in inches and (millimeters)

Rev.D

Suggested Soldering Pad Layout	SOD-323
Diagram illustrating the suggested soldering pad layout for the SOD-323 package. The dimensions are specified in inches and millimeters (in parentheses): - Pad Height: .033 (0.83) - Pad Width: .057 (1.45) - Pad Spacing: .027 (0.70)	
Dimensions in inches and (millimeters)	
RevA	

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

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

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