

FEATURES

- Protects one data, control line
- Low leakage current
- Ultra-small package
- Low clamping voltage
- High temperature soldering
guaranteed:260°C/10s
- Transient protection for
high-speed data lines
IEC 61000-4-2 (ESD) ±15kV (air),
±8kV (contact)
- IEC 61000-4-4 (EFT) 40A
(5/50ns)
Cable Discharge Event (CDE)

MECHANICAL DATA

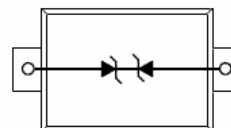
- Case : Molded, plastic SOD-323
- Polarity : Shown follows
- Epoxy : UL94-V0 rated flame retardant

SOD-323 PACKAGE

Marking : 5BU



SCHEMATIC & PIN CONFIGURATION

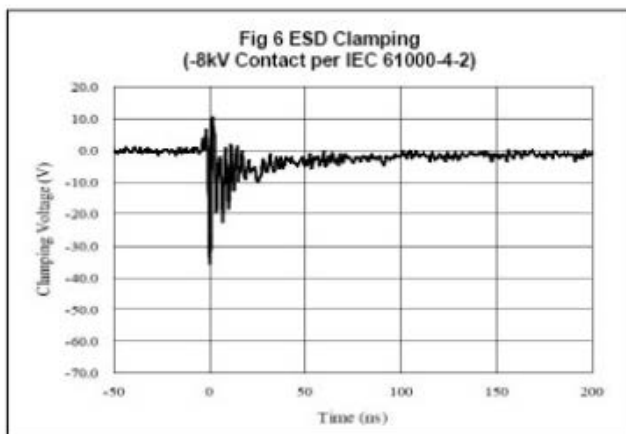
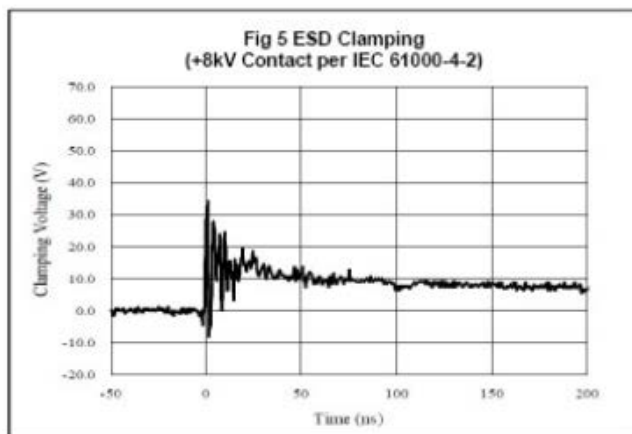
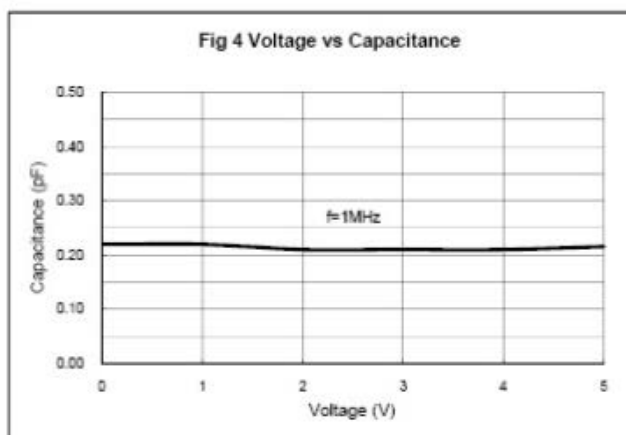
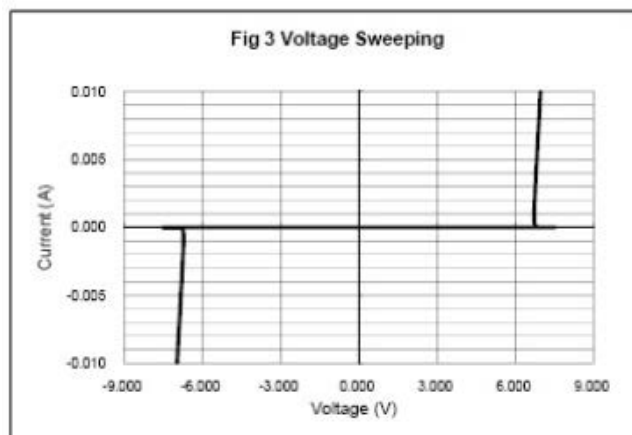
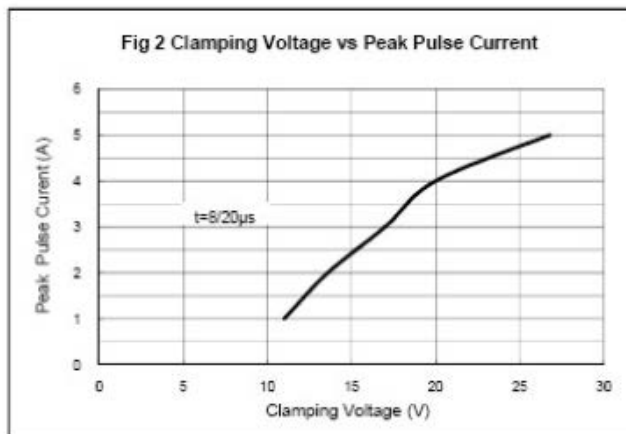
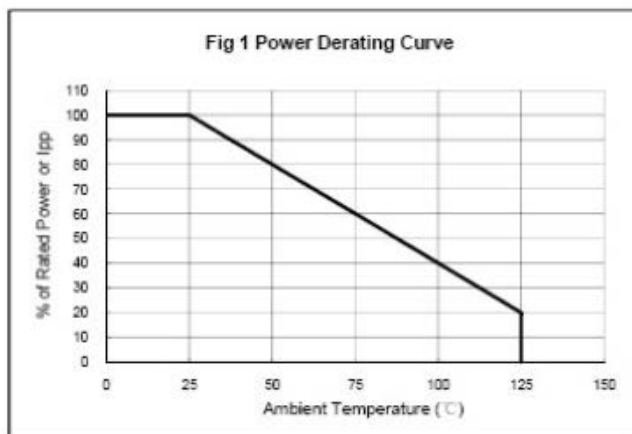


MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (AT $T_A = 25^\circ\text{C}$ unless otherwise noted)

PARAMETE	SYMBOL	VALUE	UNIT
Maximum forward voltage ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	V_{ESD}	±20	kV
Maximum Peak Pulse Power (8/20 μs)	P_{PP}	100	W
Operating Temperature range	T_{OPT}	-55 to +125	°C
Storage temperature range	T_{STG}	-55 to +150	°C

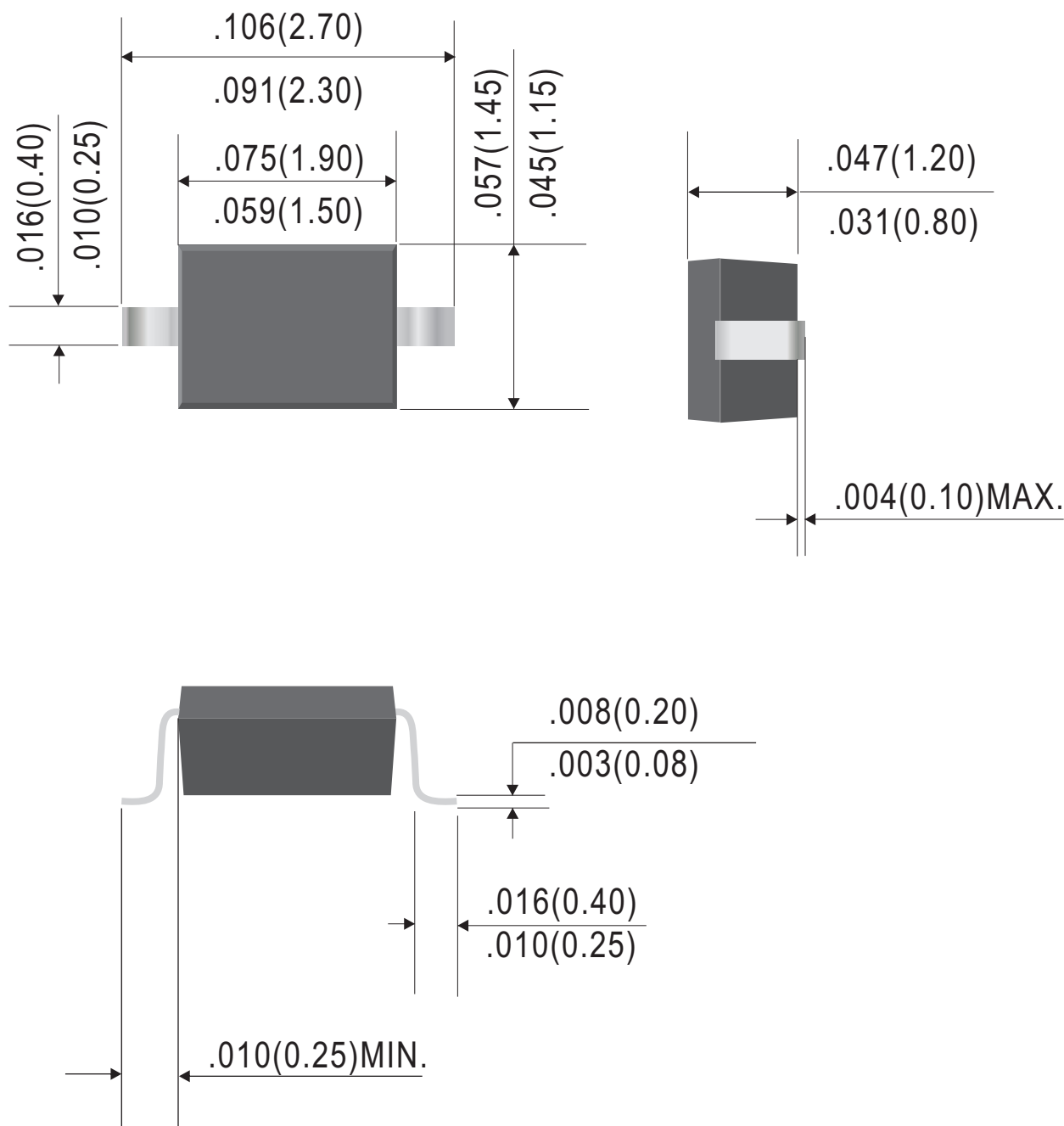
PARAMETE	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse Working Voltage	V_{RWM}		-	-	5.0	V
Reverse Leakage Current	I_{R}	$V_{\text{RWM}} = 5\text{V}$	-	-	100	nA
Reverse Breakdown Voltage	V_{BR}	$I_{\text{T}} = 1\text{mA}$	6.0	-	-	V
Clamping Voltage	V_{C}	$I_{\text{PP}} = 1\text{A}, t_{\text{p}} = 8/20\mu\text{s}$	-	-	13	V
		$I_{\text{PP}} = 4\text{A}, t_{\text{p}} = 8/20\mu\text{s}$	-	-	25	V
Junction Capacitance	C_{J}	$V_{\text{R}} = 0\text{V}, f = 1\text{MHz}$	-	0.25	0.40	pF

RATING AND CHARACTERISTIC CURVES



Outline Drawing

SOD-323



Dimensions in inches and (millimeters)

Rev.D



Ordering Information:

Device PN	Packing
SESDBULC5V0 -T ⁽¹⁾ H ⁽²⁾ -WS ⁽³⁾	Tape&Reel: 3 Kpcs/Reel

Note: (1) Packing code, Tape & Reel Packing

(2) Halogen free product for packing code suffix "H"

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

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