



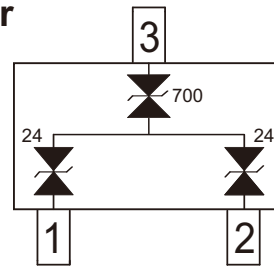
Bidirectional Transient Voltage Suppressor

FEATURES

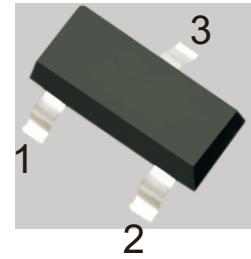
- Low clamping voltage
- IEC61000-4-2 (ESD) $\pm 25\text{kV}$ (air), $\pm 15\text{kV}$ (contact)
- IEC61000-4-4(EFT) 40A (5/50ns)
- IEC61000-4-5(Lightning) 21A (8/20us)
- Qualified to AEC-Q101 Standards for High Reliability

Applications

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



ESDB24700T3



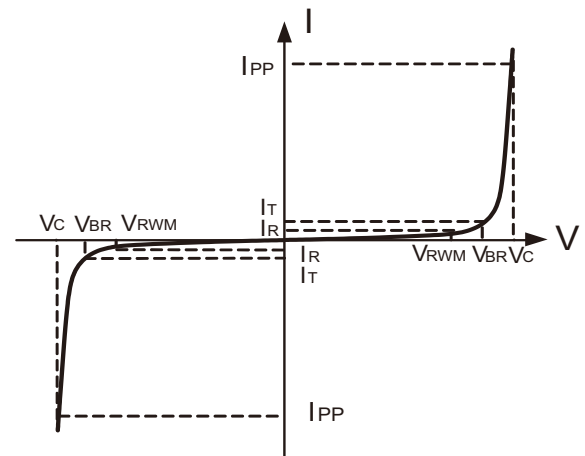
SOT143WD-3L



Automotive Grade

Electrical Parameters (T=25 °C)

Symbol	Parameter
I_{PP}	Reverse Peak Pulse Current
V_C	Clamping Voltage @ I_{PP}
V_{RWM}	Reverse Stand- Off Voltage
I_R	Reverse Leakage Current @ V_{RWM}
V_{BR}	Breakdown Voltage @ I_T
I_T	Test Current



Maximum Ratings @Ta=25°C unless otherwise specified

Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20 μs) ⁽¹⁾	Ppp	1100	W
ESD per IEC 61000-4-2 (Air) ⁽²⁾ ESD per IEC 61000-4-2 (Contact) ⁽²⁾	VESD	± 25 ± 15	kV
Operating Temperature Range	Tj	-55 to +150	°C
Storage Temperature Range	Tstg	-55 to +150	°C

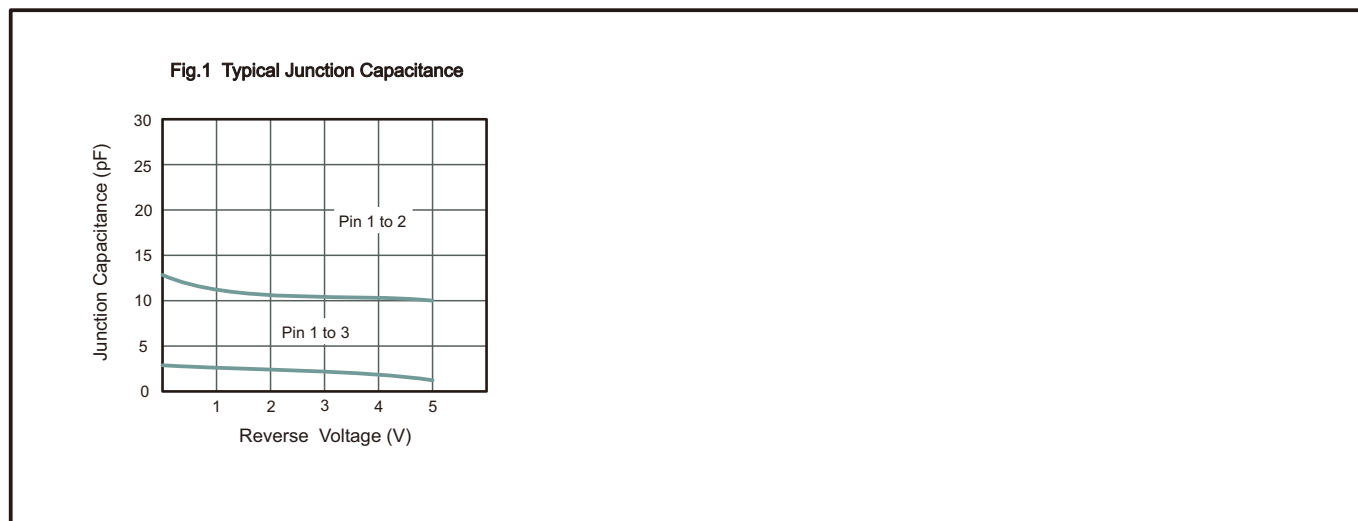
(1).Reliability test conditions: foot position from "1" to "3"

(2).Reliability test conditions: foot position from "1" to "2"

Characteristics at Ta = 25°C unless otherwise specified

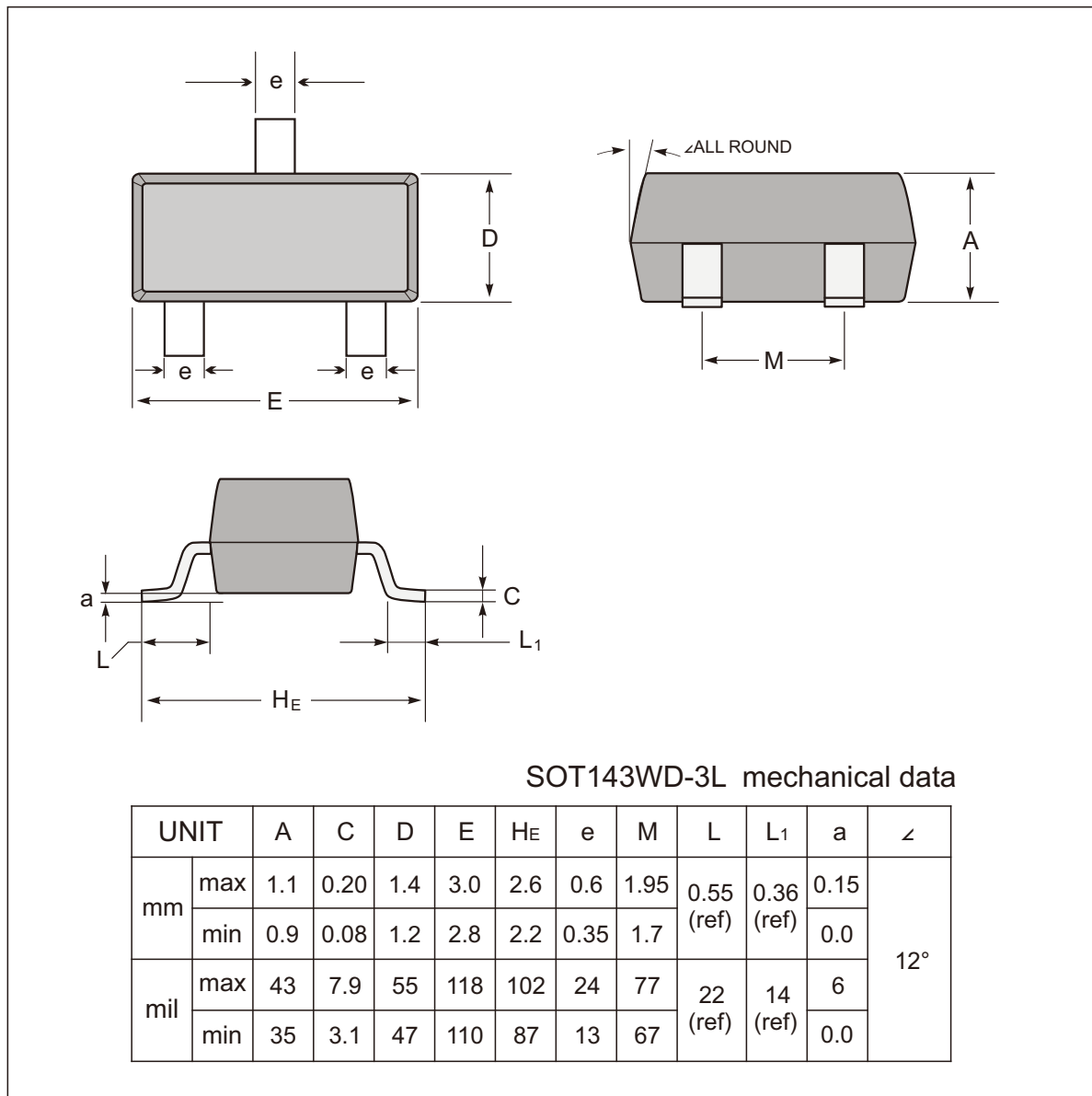
Symbol	Parame	Test Condition	Pin 1 to 3 and Pin 2 to 3			Pin 1 to 2			Units
			Min	Typ	Max	Min	Typ	Max	
V_{RWM}	Reverse Working Voltage		724			48			V
V_{BR}	Reverse Breakdown Voltage	$I_T = 1\text{mA}$	776			52			V
I_R	Reverse Leakage Current	$V_R = V_{RWM}$			1			1	μA
C_J	Capacitance	$V_R=0\text{V}, f=1\text{MHz}$			5			15	pF
V_{C1}	Clamping Voltage 1	$I_{PP} = 1\text{A}, t_p = 8/20\mu\text{s}$						70	V
V_{C2}	Clamping Voltage 2	$I_{PP} = 1.1\text{A}, t_p = 8/20\mu\text{s}$			1100				V
V_{C3}	Clamping Voltage 3	$I_{PP} = 5\text{A}, t_p = 8/20\mu\text{s}$						80	V
V_{C4}	Clamping Voltage 4	$I_{PP} = 6\text{A}, t_p = 8/20\mu\text{s}$						85	V

Typical Characteristics

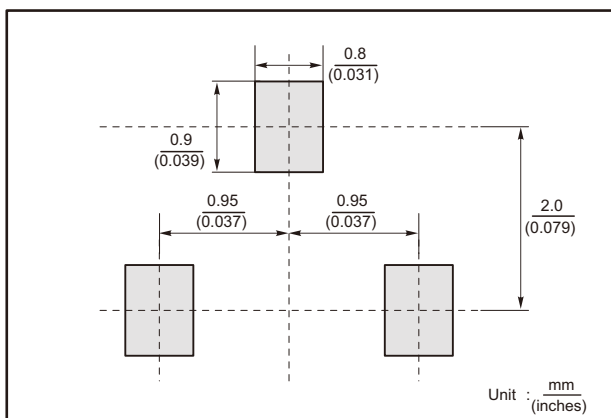




SOT143WD-3L Package Outline Dimensions



The recommended mounting pad size



Marking

Type number	Marking code
ESDB24700T3	.C24

