

GESBK15VD3

ESD Protection Diode

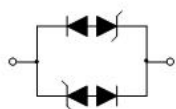
VOLTAGE 15 Volt

FEATURES

- Bi-directional ESD protection of one line
- Low reverse clamping voltage
- Low leakage current
- IEC 61000-4-2 $\pm 25\text{KV}$ air, $\pm 25\text{KV}$ contact
- Lead free in compliance with EU RoHS

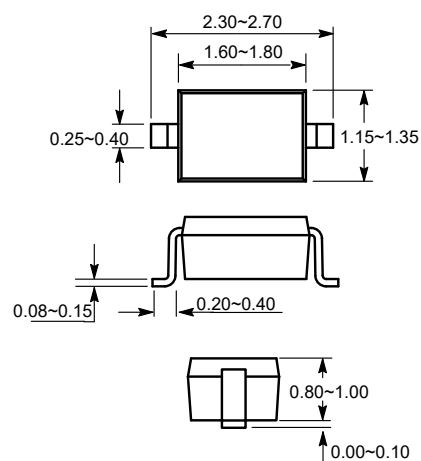
MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



Schematic Diagram

SOD-323 Unit:mm



ABSOLUTE MAXIMUM RATINGS($T_A = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Limit	Unit
JESD22-A114-B ESD Voltage	$V_{\text{ESD}}^{(1)}$	± 16	kV
ESD Voltage		± 0.4	
Peak Pulse Power	$P_{\text{PP}}^{(2)}$	370	W
Peak Pulse Current	$I_{\text{PP}}^{(2)}$	10	A
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 ~ +150	$^\circ\text{C}$

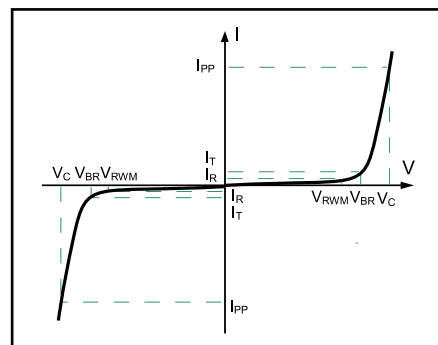
(1).Device stressed with ten non-repetitive ESD pulses.

(2).Non-repetitive current pulse 8/20 μs exponential decay waveform according to IEC61000-4-5.

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ELECTRICAL PARAMETER

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



V-I characteristics for a Bi-directional TVS

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

Parameter	mbol	Test conditions	Min	Typ	Max	Unit
Reverse stand off voltage	$V_{RWM}^{(3)}$				15	V
Reverse leakage current	I_R	$V_{RWM}=15\text{V}$			1	μA
Breakdown voltage	$V_{(BR)}$	$I_T=1\text{mA}$	16.7		21	V
Clamping voltage	$V_C^{(4)}$	$I_{PP}=30\text{A}$			37	V
Junction capacitance	C_J	$V_R=0\text{V}, f=1\text{MHz}$			2	pF

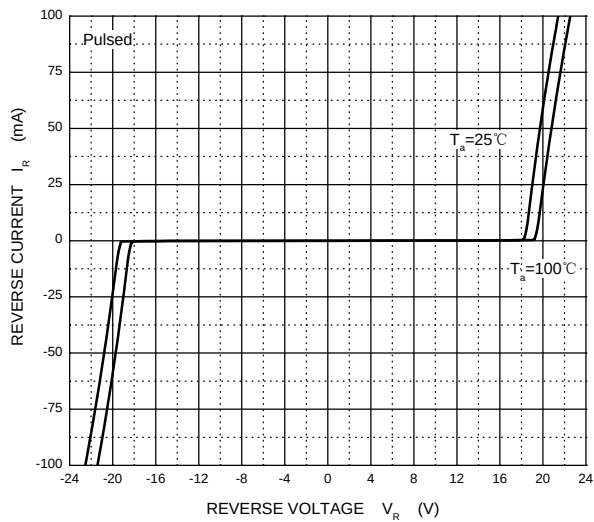
(3).Other voltages available upon request.

(4).Non-repetitive current pulse 8/20 μs exponential decay waveform according to IEC61000-4-5

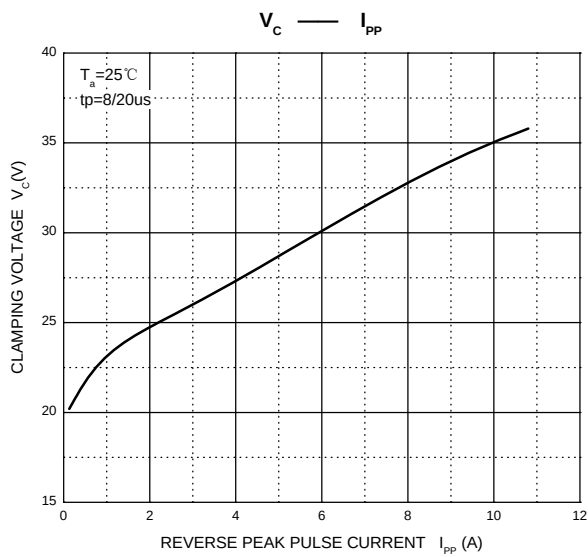
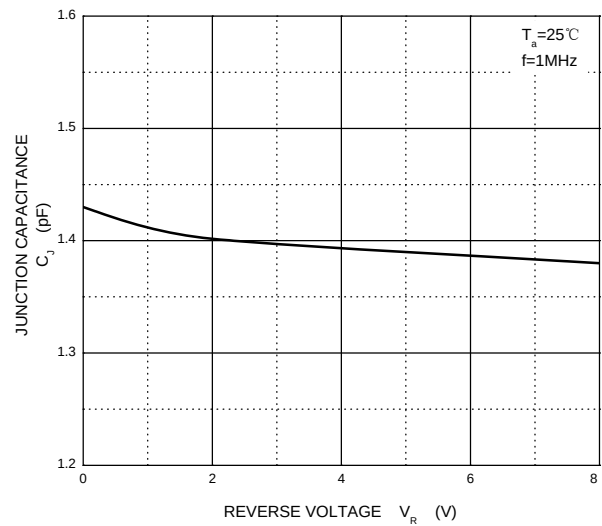
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Typical Characteristics

Reverse Characteristics



Capacitance Characteristics

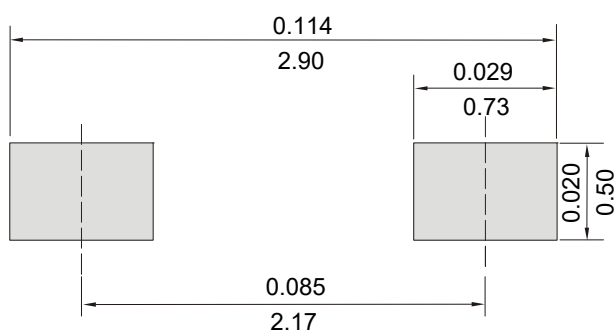


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MOUNTING PAD LAYOUT

SOD-323

Unit: Inch(mm)



ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
GESBK15VD3	SOD-323	7 Inch	3000