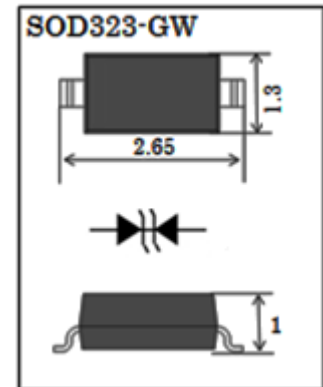


Transient Voltage Suppressors

- ◇ Low Forward Voltage Schottky Rectifier
- ◇ ESD Protection, IEC61000-4-2 Level 4
- ◇ RoHS compliant / Green EMC
- ◇ SOD323 Thin SMD package
- ◇ Matte Tin (Sn) Lead finish
- ◇ Cathode Band / Device marking
- ◇ P/N suffix V means Halogen-free
- ◇ P/N suffix V means AEC-Q101 qualified, e.g:ESDB05WXV

Device Marking Code	
ESDB05WXV	05C



Maximum Ratings (Ta = 25 °C)

Symbol	Parameter	Value	Units
P <sub>PK</sub>	Peak Power Dissipation	350	W
I <sub>PP *1</sub>	Maximum Reverse Peak Pulse Current	24	A
V <sub>ESD-Air</sub>	ESD Voltage IEC61000-4-2 Air	±25	kV
V <sub>ESD-contact</sub>	ESD Voltage IEC61000-4-2 Contact	±10	kV
T <sub>J</sub>	Junction Temperature	150	°C
T <sub>L</sub>	Lead Temperature	260	°C
T <sub>STG</sub>	Storage Temperature	-55 to +150	°C
P <sub>D</sub>	Power Dissipation	150	mW

\*1 t<sub>p</sub> = 8/20 μs

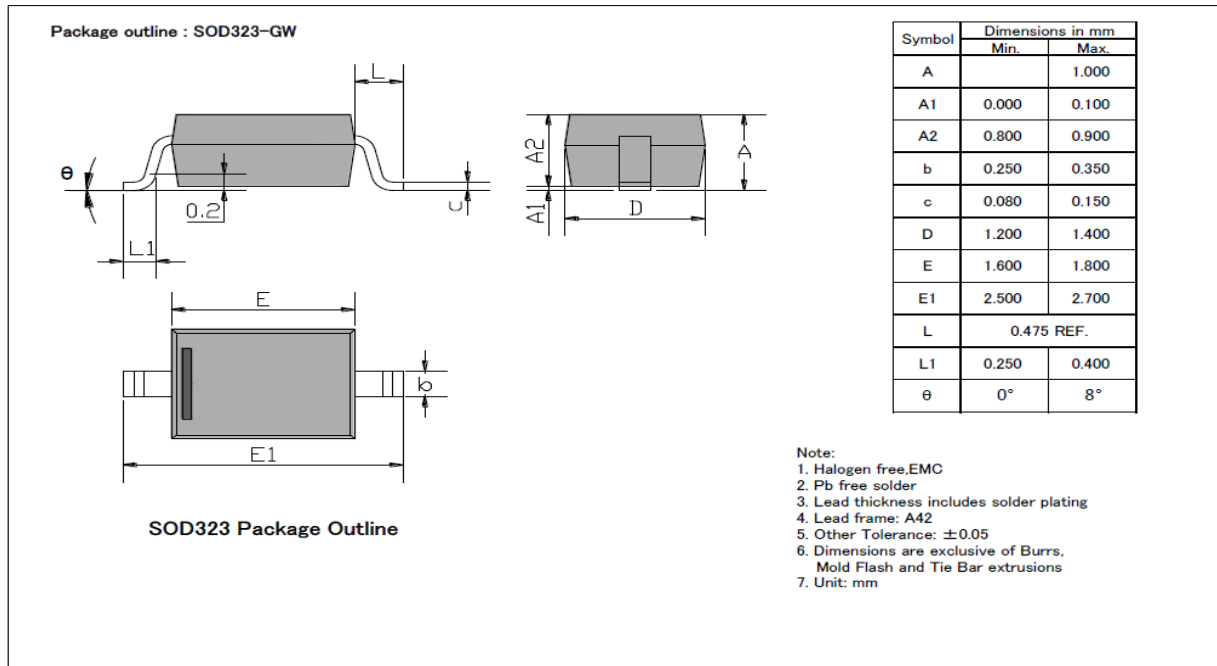
Electrical Characteristics (Ta = 25 °C)

Symbol	Parameter	Conditions	Min	Typ	Max	Units
V <sub>RWM</sub>	Reverse Working Peak Voltage	-			5.0	V
V <sub>BR</sub>	Reverse Breakdown Voltage	I <sub>T</sub> = 1mA	6.2		8	V
I <sub>R</sub>	Reverse Current	V <sub>RWM</sub> = 5V			1	μA
V <sub>C</sub>	Clamping Voltage	I <sub>PP</sub> MAX, t <sub>p</sub> = 8/20 μs			14.5	V
C <sub>D</sub>	Diode Capacitance	V <sub>R</sub> = 0V, f = 1MHz		130		pF

## Ordering Information

Package	Package Code	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
SOD323	-T	Tape & Reel 3000pcs /7" Reel	8 mm	4 mm	Conductive	

## Package Dimensions



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