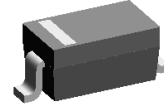


PRIMARY CHARACTERISTICS

P_D	200mW
V_{RRM}	40V
I_O	500mA
V_F	0.51V
$T_{J,Max}$	125°C

SCHEMATIC DIAGRAM SOD-323 PACKAGE



FEATURES

- Low Forward Voltage Schottky Rectifier
- Moisture Sensitivity Level 1

MECHANICAL DATA

- Case : Molded plastic,SOD-323
- Polarity : Shown above
- Terminals :Plated terminals, solderable per MIL-STD-750,Method 2026
- Epoxy : UL94-V0 rated flame retardant

Maximum Ratings ($T_a = 25\text{ }^{\circ}\text{C}$)

Symbol	Parameter	Value	Units
V_{RRM}	Repetitive Peak Reverse Voltage	40	V
V_R	DC Blocking Voltage	40	V
$V_{R(RMS)}$	RMS reverse voltage (DC)	28	V
I_O	Continuous Forward Current	500	mA
I_{FSM}	Non-Repetitive Peak Forward Current *1	5	A
P_D	Power Dissipation	200	mW
T_J	Junction Temperature	125	°C
T_{STG}	Storage Temperature	-40 to +125	°C

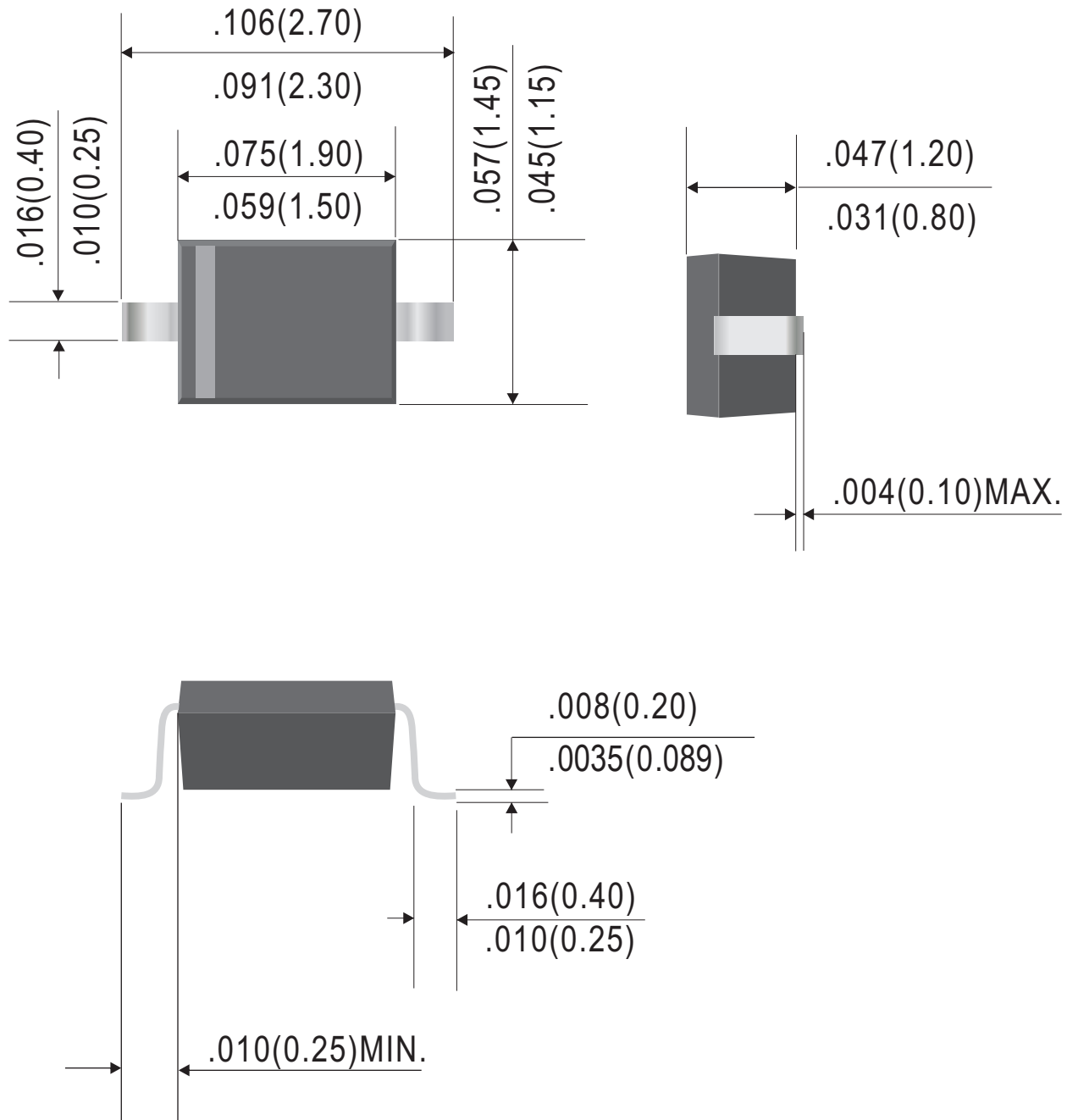
*1 8.3 ms single half sine-wave

Electrical Characteristics ($T_a = 25\text{ }^{\circ}\text{C}$)

Symbol	Parameter	Conditions	Min	Max	Units
BV_R	Breakdown Voltage	$I_R = 20\text{ }\mu\text{A}$	40		V
I_R	Reverse Current	$V_R = 20\text{V}$ $V_R = 40\text{V}$		10 20	μA μA
V_F	Forward Voltage	$I_F = 500\text{mA}$ $I_F = 1\text{A}$		0.51 0.62	V V
C_T	Capacitance between terminals	$V_R = 0\text{V}, f=1\text{MHZ}$		170	pf

Outline Drawing

SOD-323



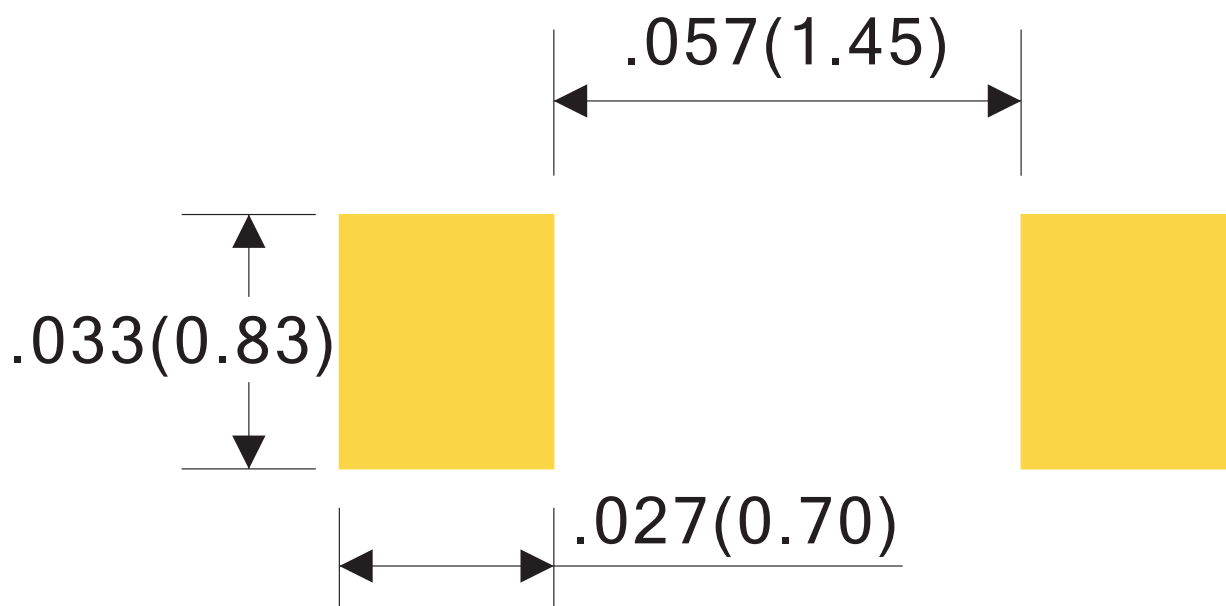
Dimensions in inches and (millimeters)

Rev.D-1



Suggested Soldering Pad Layout

SOD-323



Dimensions in inches and (millimeters)

RevA

Ordering Information:

Device PN	Marking	Packing
B0540WS -T ⁽¹⁾ H ⁽²⁾ -WS ⁽³⁾	ŠF or 4	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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