



M! Plastic-Encapsulate Schottky Barrier Diode π CЛ±

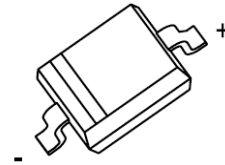
PRIMARY CHARACTERISTICS

P_D	200mW
V_{RRM}	60V
I_O	1A
V_F	0.7V
$T_{J,Max}$	125°C

SOD-323

PACKAGE

Marking : SM/X6



FEATURES

- Low Forward Voltage Schottky Rectifier
- High Frequency Inverters
- 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 ($T_a = 25^\circ\text{C}$)

Symbol	Parameter	Value	Units
V_{RRM}	Repetitive Peak Reverse Voltage	60	V
V_R	DC Blocking Voltage	60	V
$V_{R(RMS)}$	RMS reverse voltage (DC)	42	V
I_{FSM}	Non-repetitive Peak Forward Surge Current *1	10	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 ($T_a = 25^\circ\text{C}$)

Symbol	Parameter	Conditions	Min	Max	Units
BV_R	Breakdown Voltage	$I_R = 100\mu\text{A}$	60		V
I_R	Reverse Current	$V_R = 60\text{V}$		40	μA
V_F	Forward Voltage	$I_F = 0.1\text{A}$		0.43	V
		$I_F = 0.7\text{A}$		0.61	V
		$I_F = 1\text{A}$		0.67	V
C_T	Capacitance between terminals	$V_R = 4\text{V}, f = 1\text{MHz}$		120	pf

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

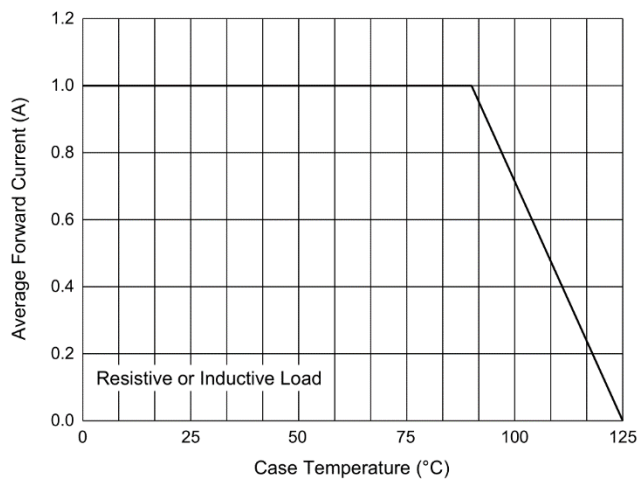


Fig. 2 - Typical Instantaneous Forward Characteristics

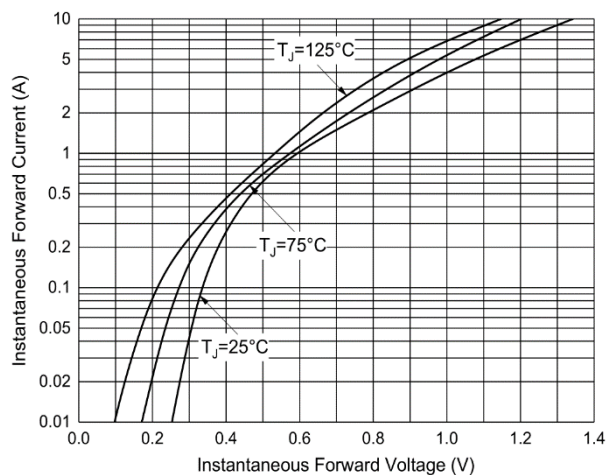
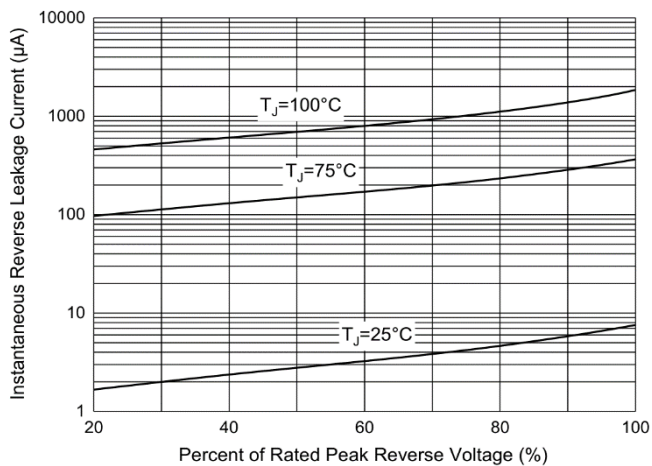


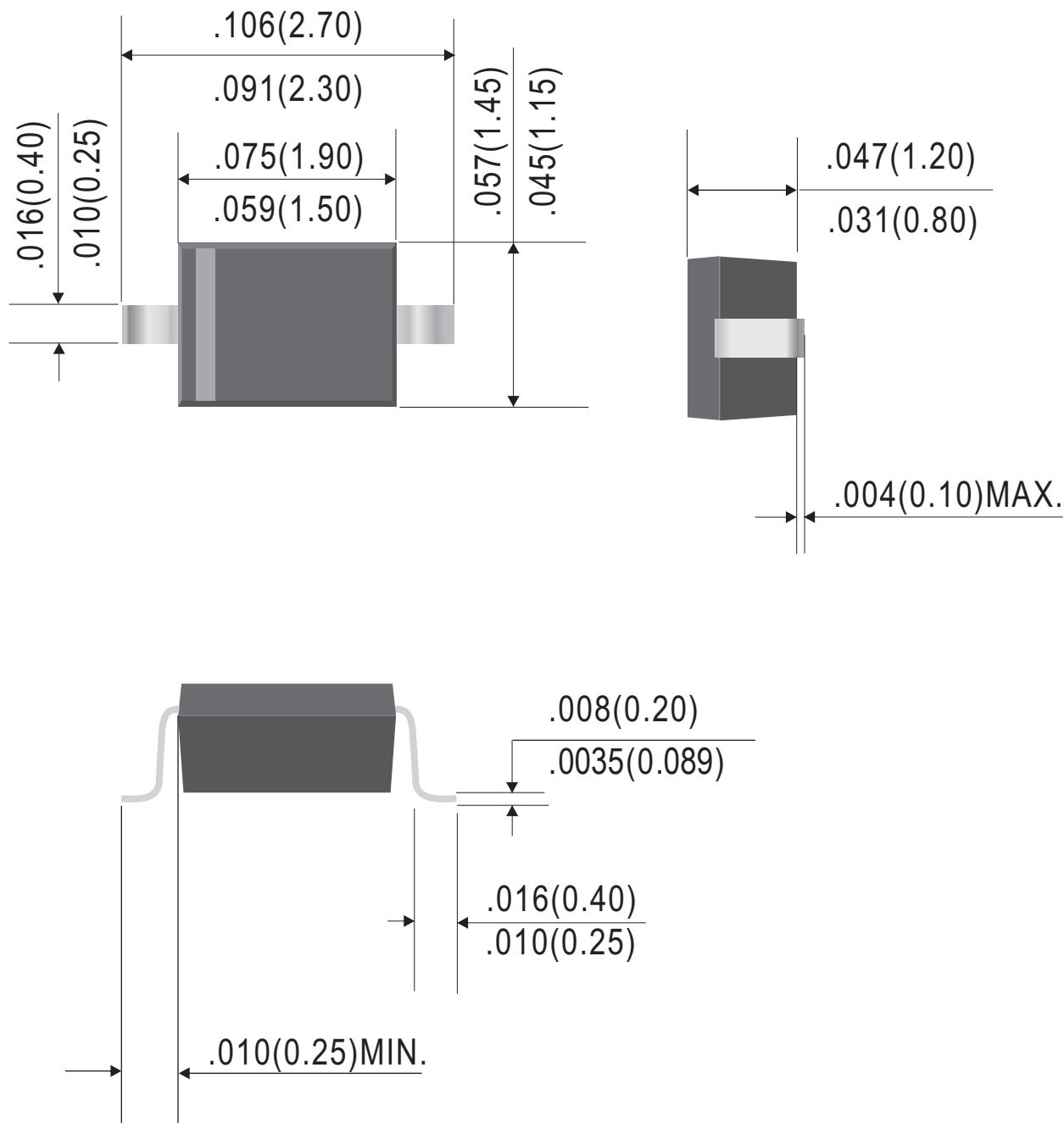
Fig. 3 - Typical Reverse Leakage Characteristics





Outline Drawing

SOD-323

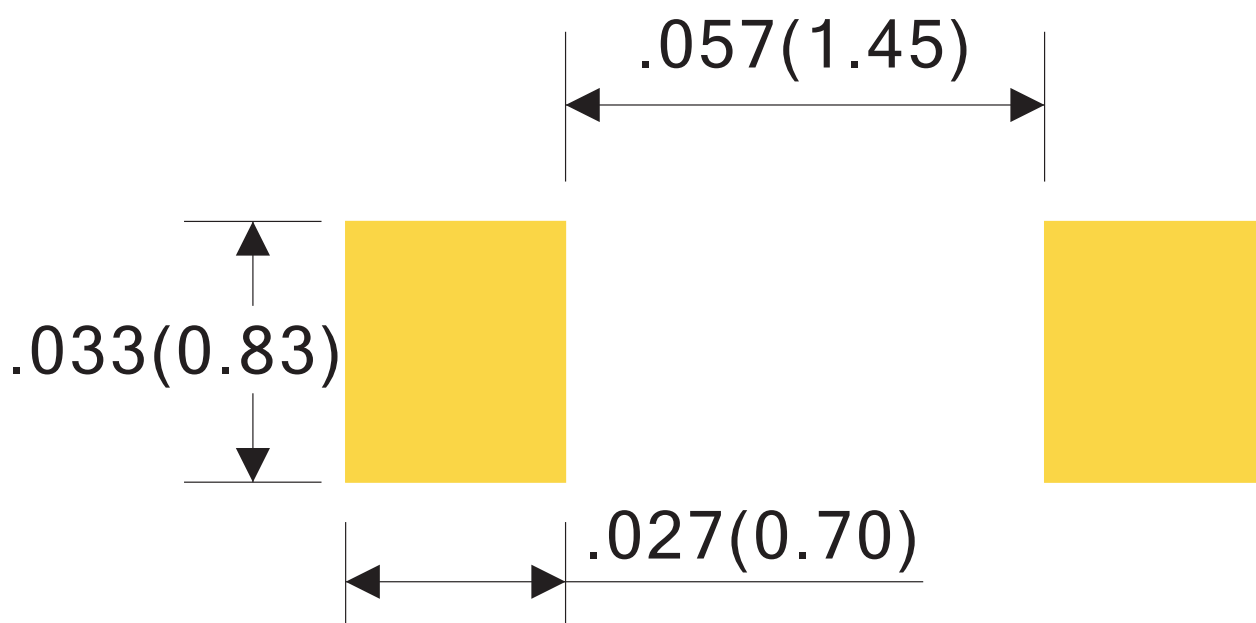


Dimensions in inches and (millimeters)

Rev.D-1

Suggested Soldering Pad Layout

SOD-323



Dimensions in inches and (millimeters)

RevA

Ordering Information:

Device PN	Packing
B1060WS -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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