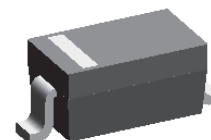


**3A Plastic-Encapsulate Schottky Barrier Diode - 10V****PRIMARY CHARACTERISTICS**

P_D	350mW
V_R	10V
I_F	3A
V_F	0.38
$T_{J,Max}$	125°C

SOD-323**PACKAGE**

Marking:

**FEATURES**

- High Current Rectifier Schottky Diode
- with Low V_F Drop
- Low Voltage, Low Inductance
- For Power Supply
- For Detection and Step-up-Conversion
- Suitable for protecting coil circuits and low-voltage rectification circuits in communication equipment.

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

Absolute Maximum Ratings ($T_a = 25\text{ }^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Limit	Unit
Forward Current	I_F	3	A
Non-repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	I_{FSM}	5	A
DC Blocking Voltage	V_R	10	V
Power Dissipation	P_D	350	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	286	$^{\circ}\text{C/W}$
Operating Junction Temperature Range	T_J	-40~+125	$^{\circ}\text{C}$
Storage Temperature Range	T_{stg}	-55~+150	$^{\circ}\text{C}$

Note:

1. If the product's usage conditions exceed the rated conditions, it will cause irreparable damage to the product. Prolonged operation under rated conditions can also affect the reliability of the product.
2. The actual working temperature of the product must be lower than the junction temperature of the product, and attention should be paid to heat dissipation during actual use.

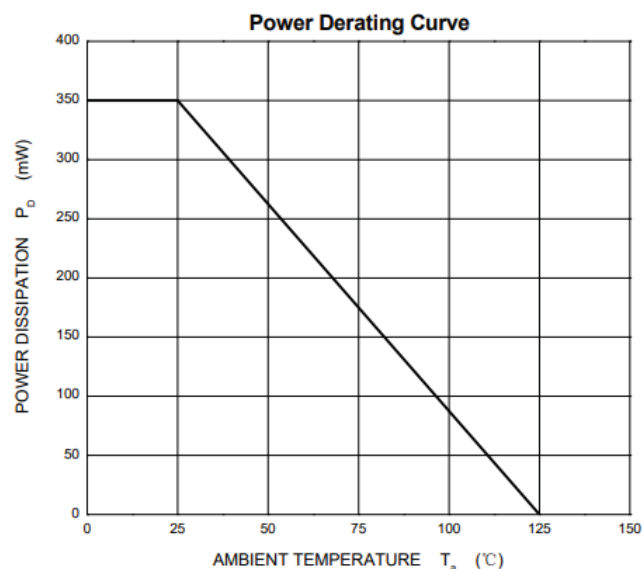
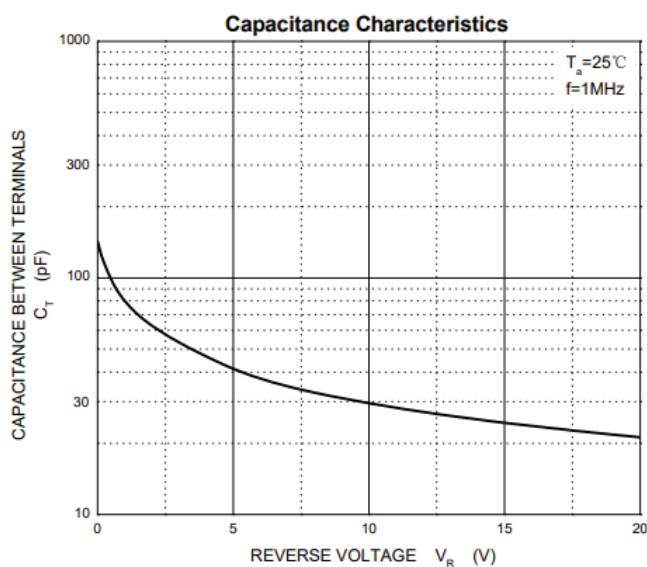
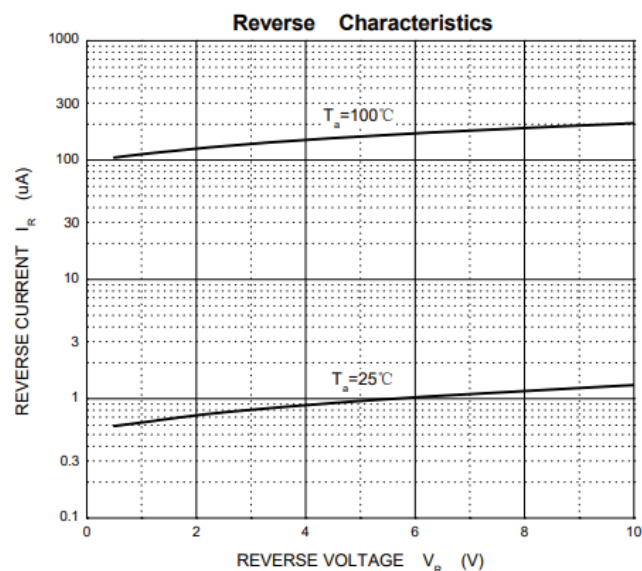
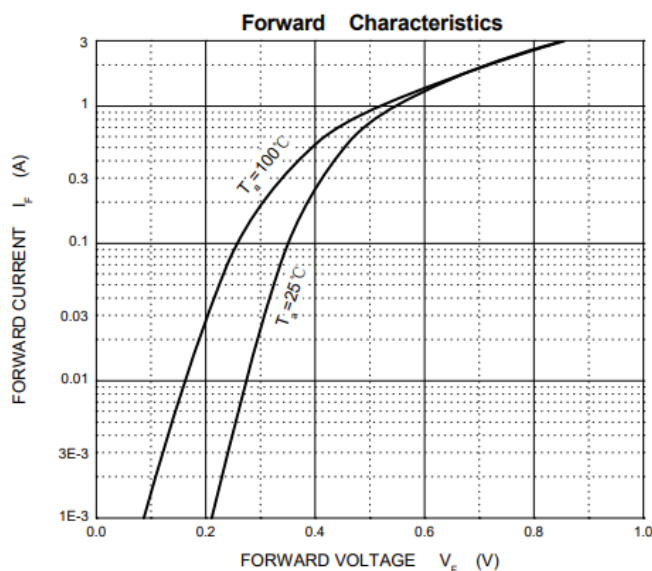


3A Plastic-Encapsulate Schottky Barrier Diode - 10V

Electronics Characteristics ($T_A = 25^{\circ}\text{C}$ Unless otherwise noted)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_{F1}	$I_F=100\text{mA}$			0.38	V
	V_{F2}	$I_F=500\text{mA}$			0.5	V
	V_{F3}	$I_F=1000\text{mA}$			0.6	V
Reverse Voltage	V_R	$I_R=1\text{mA}$	10			V
Reverse current	I_{R1}	$V_R=5\text{V}$			15	μA
	I_{R2}	$V_R=8\text{V}$			25	μA
Total capacitance	C_{tot}	$V_R=5\text{V}, f=1\text{MHz}$		30		pF

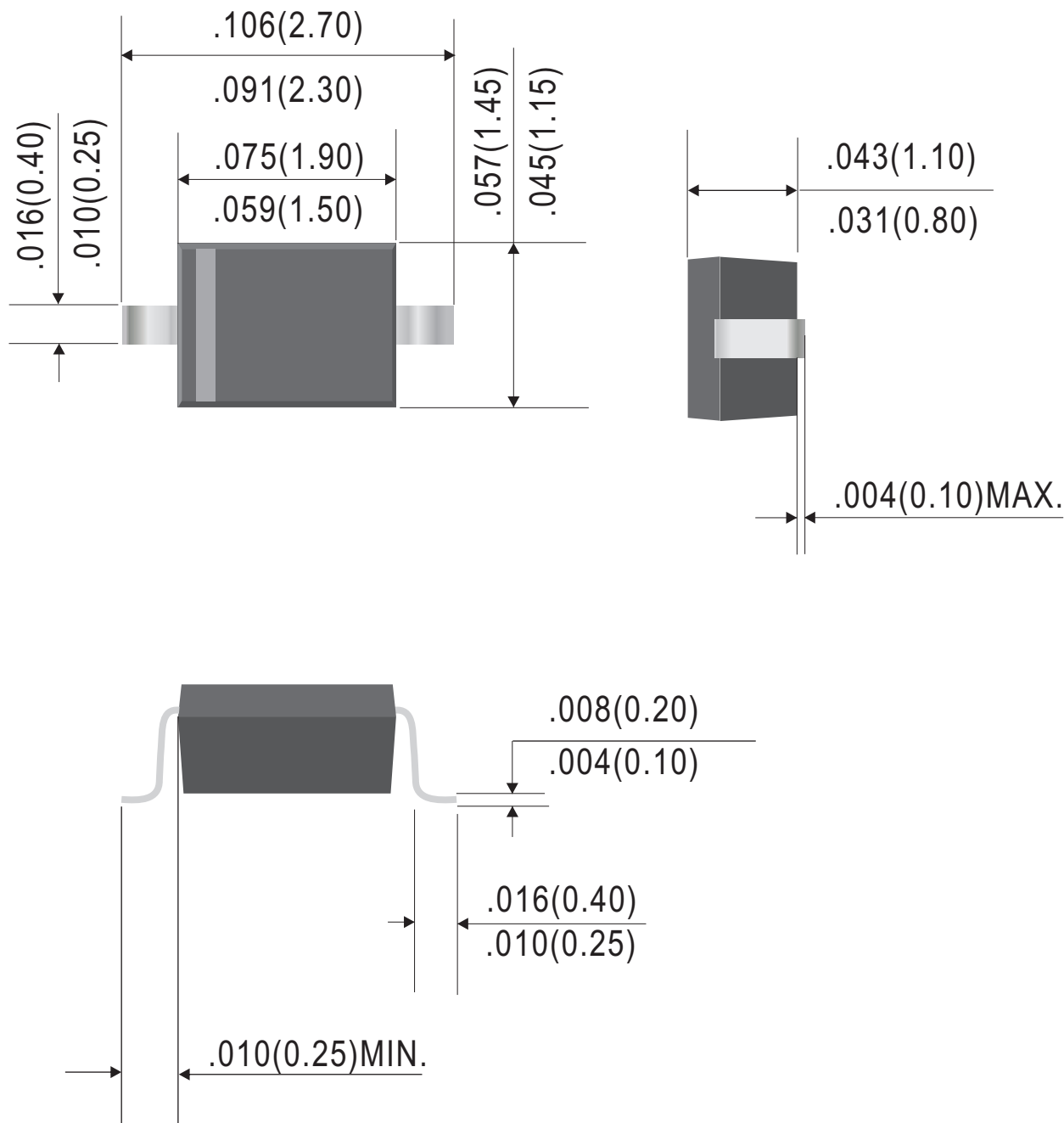
Typical Characteristics





Outline Drawing

SOD-323



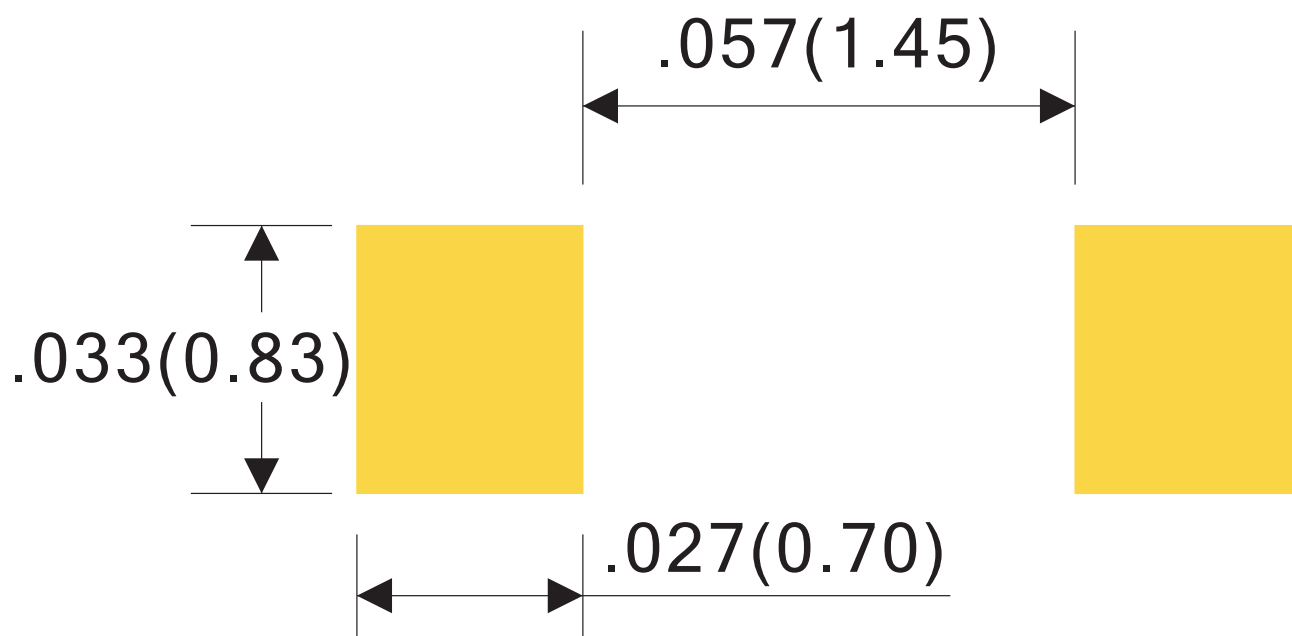
Dimensions in inches and (millimeters)

Rev.C



Suggested Soldering Pad Layout

SOD-323



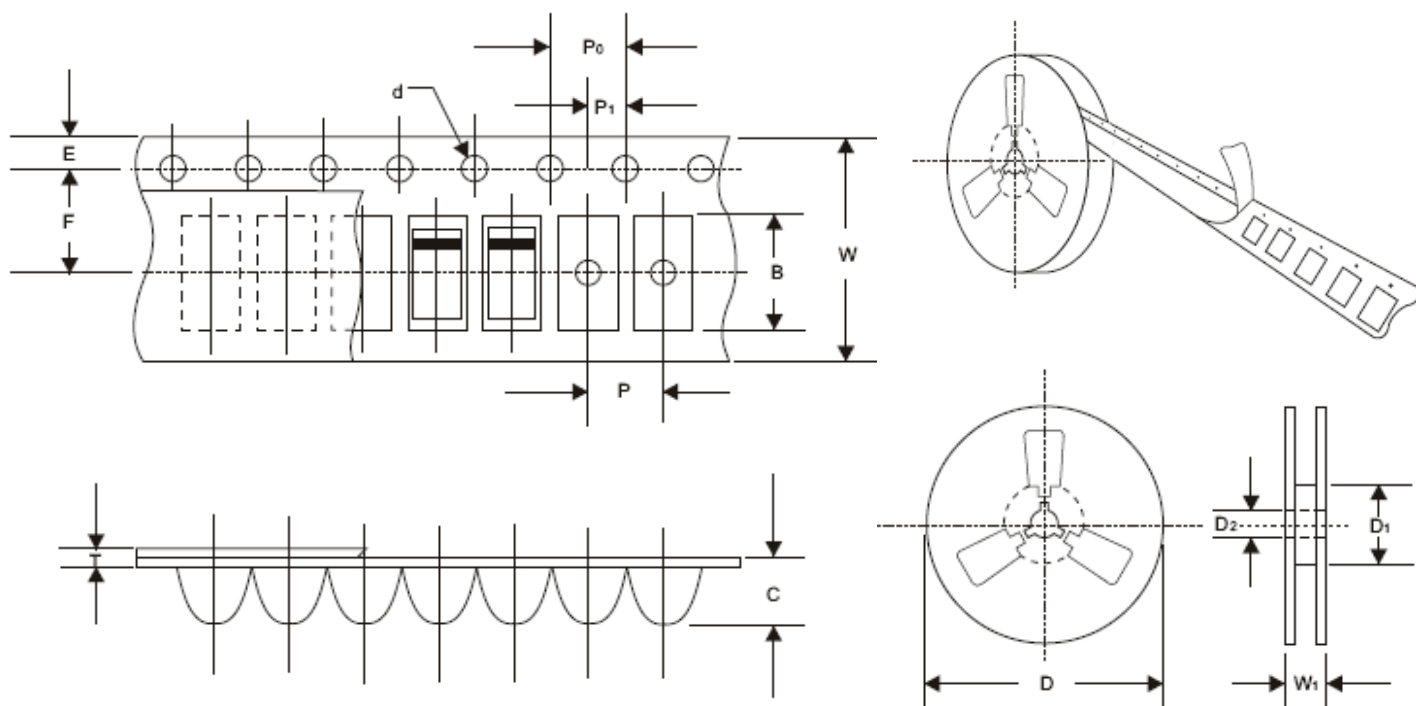
Dimensions in inches and (millimeters)

Rev.A



Reel Taping Specification - Surface Mount Device/SOD-323

PACKAGE	PER REEL EA	REEL DIA (m/m)	PER BOX EA	PER CARTION EA
SOD-323	3000	178	45000	180,000



ITEM	SYMBOL	SPECIFICATIONS(mm)		SPECIFICATIONS(inch)	
		SOD-323		SOD-323	
Carrier length	B	4.5max.		0.177max.	
Carrier depth	C	2.4max.		0.094max.	
Sprocket hole	d	1.55±0.1		0.061±0.004	
Reel outside diameter	D	178max.		7max.	
Reel inner diameter	D1	50min.		1.969min.	
Feed hole diameter	D2	13.0±0.2		0.512±0.008	
Sprocket hole position	E	1.75±0.1		0.069±0.004	
Punch hole position	F	3.5±0.05		0.1378±0.002	
Punch hole pitch	P	4.0±0.1		0.157±0.004	
Sprocket hole pitch	P0	4.0±0.1		0.157±0.004	
Embossment center	P1	2.0±0.05		0.079±0.002	
Overall tape thickness	T	0.4max.		0.016max.	
Tape width	W	8.0±0.3		0.315±0.012	
Reel width	W1	14.4max.		0.567max.	

**Ordering Information:**

Device PN	Marking ⁽⁴⁾	Packing
BAT60B-T ⁽¹⁾ H ⁽²⁾ -WS ⁽³⁾	W5	Tape&Reel: 3 Kpcs/Reel

Note: (1) Packing code, Tape & Reel Packing

(2) Packing code Suffix"H" for halogen free product. All materials and products supplied comply with the U.S. Toxic Substances Control Act statement, PBT Chemicals.

(3) Willas brand abbreviation, Label Type does not display.

(4) There may be additional marking, which relates to the lot trace code information (data code and vendor code), the logo or the environmental category on the device.

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