

**Plastic-Encapsulate Schottky Barrier Diode****PRIMARY CHARACTERISTICS**

P_D	200mW
V_R	40V
I_O	0.1A
$T_{J,Max}$	125°C

SOD-323**PACKAGE**

Marking : 4



M = Month Code

**FEATURES**

- Low current rectifier schottky diode
- Low voltage, low inductance
- For power supply
- 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 and Electrical Characteristics, Single Diode @Ta=25°C

Parameter	Symbol	Limit	Unit
Peak reverse voltage	V_{RM}	45	V
DC reverse voltage	V_R	40	V
Mean rectifying current	I_O	0.1	A
Non-repetitive Peak Forward Surge Current@t=8.3ms	I_{FSM}	1	A
Power dissipation	P_D	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500	°C/W
Junction temperature	T_J	125	°C
Storage temperature	T_{stg}	-55~+150	°C

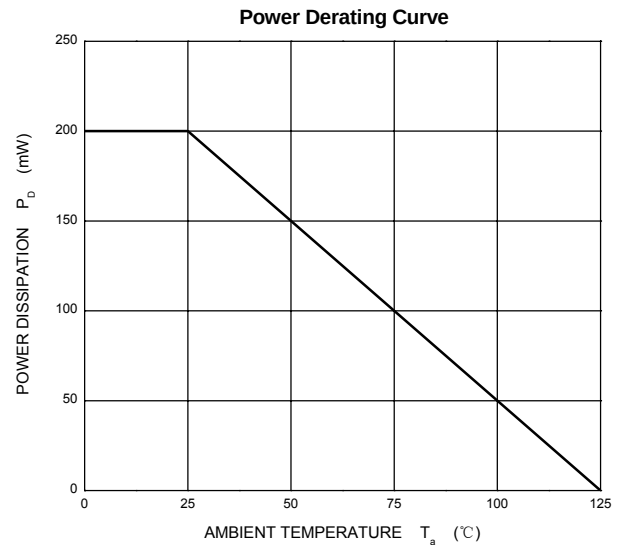
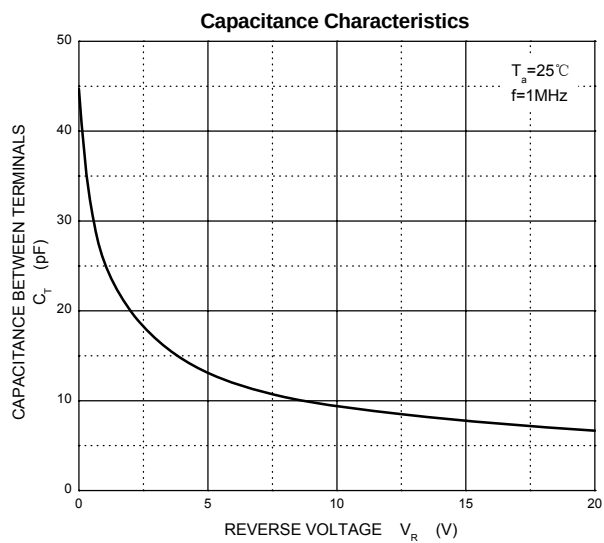
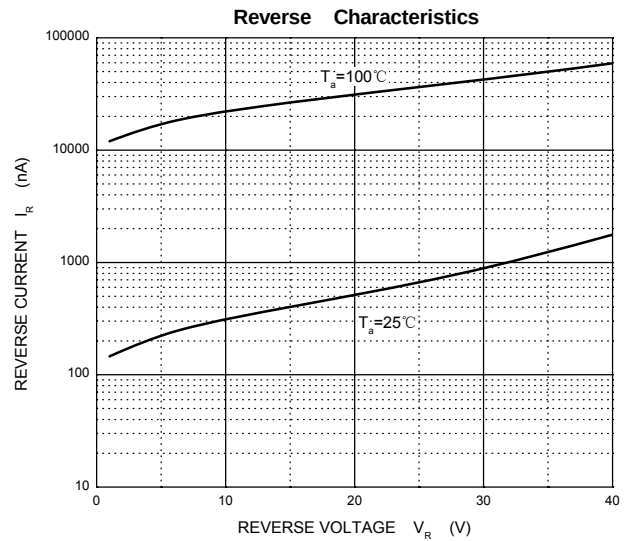
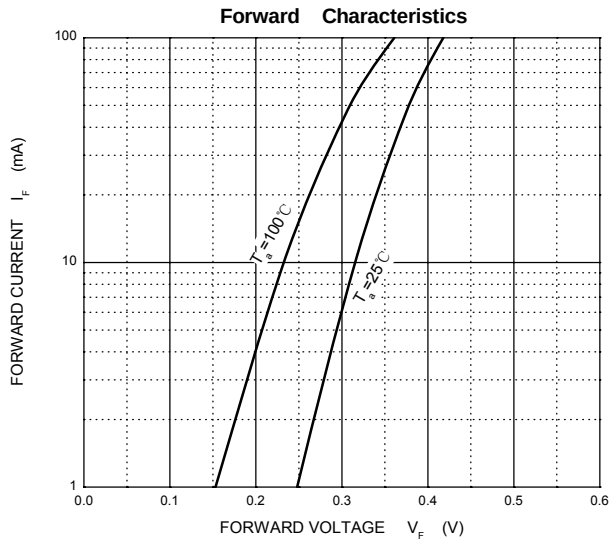
Electrical Ratings @Ta=25°C

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Forward voltage	V_F			0.55 0.34	V	$I_F=100mA$ $I_F=10mA$
Reverse current	I_R			30	μA	$V_R=10V$
Capacitance between terminals	C_T		6		pF	$V_R=10V, f=1MHZ$



Plastic-Encapsulate Schottky Barrier Diode

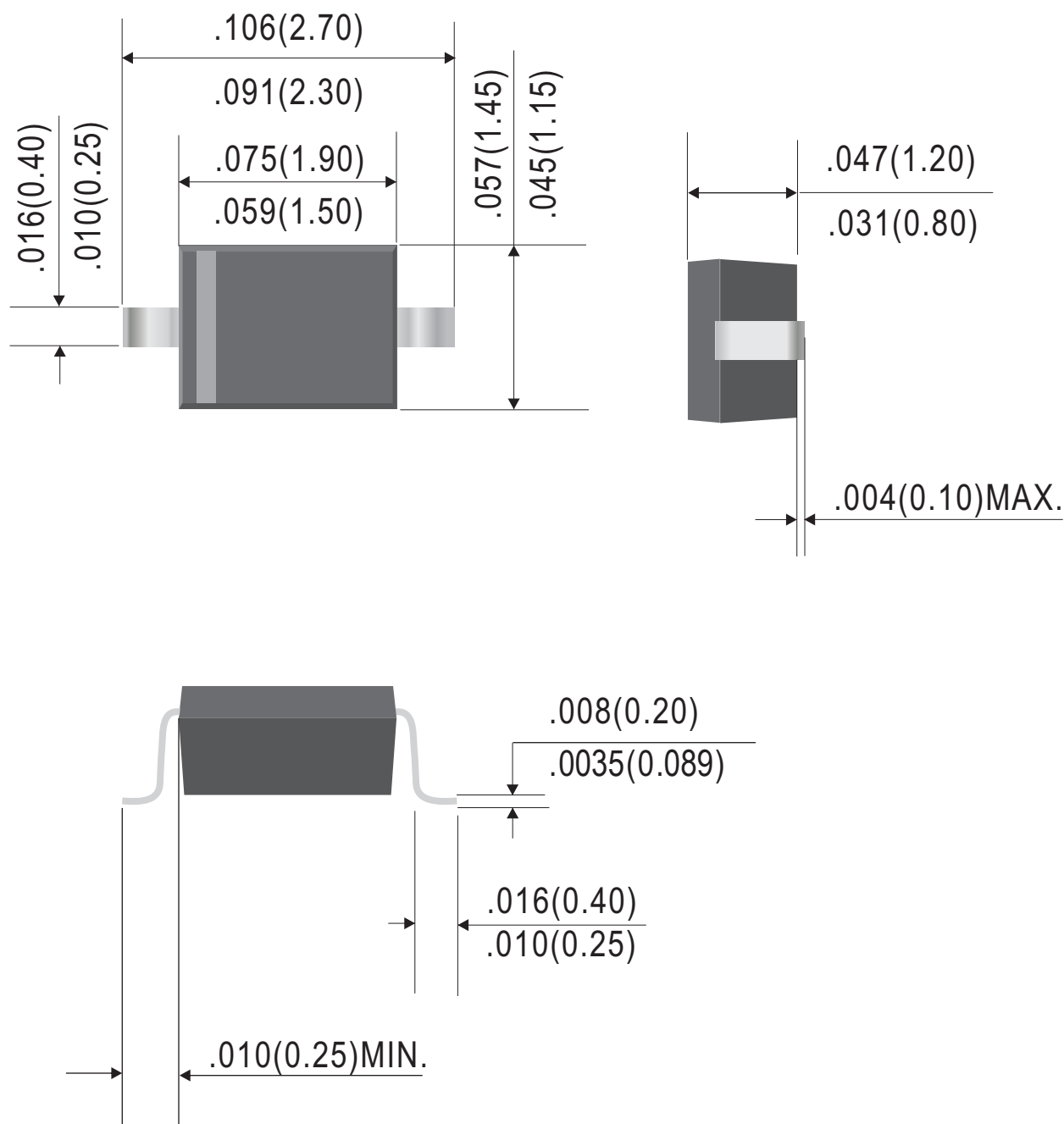
Typical Characteristics





Outline Drawing

SOD-323



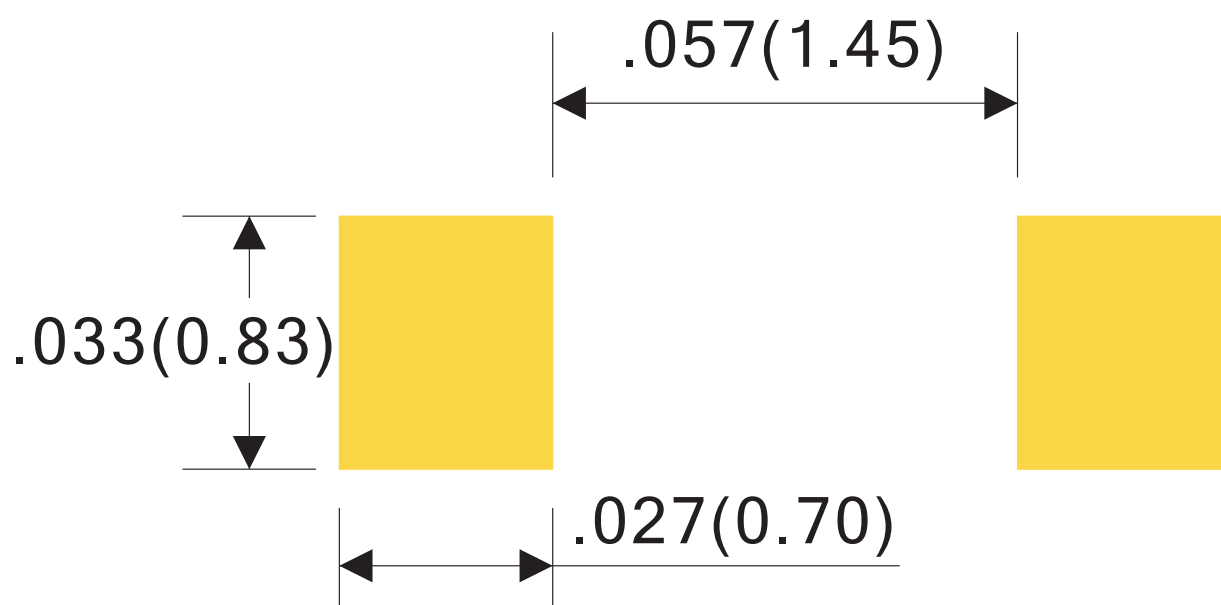
Dimensions in inches and (millimeters)

Rev.D-1



Suggested Soldering Pad Layout

SOD-323



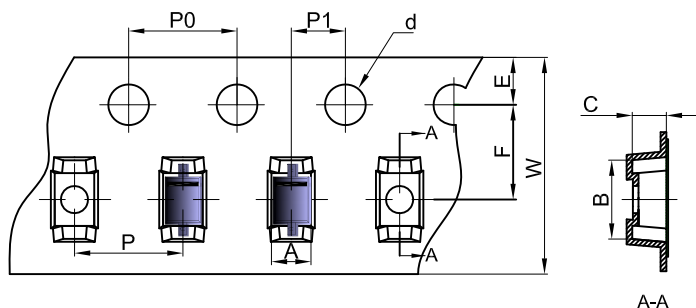
Dimensions in inches and (millimeters)

RevA



Plastic-Encapsulate Schottky Barrier Diode

SOD-323 Embossed Carrier Tape

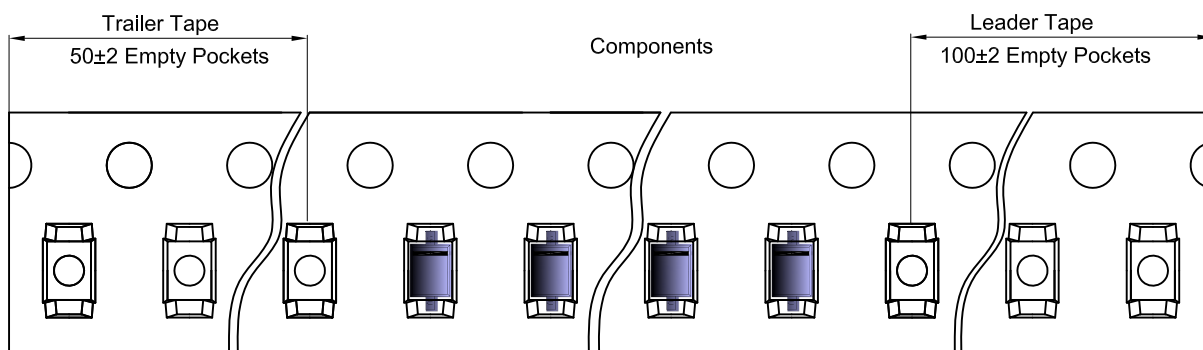


Packaging Description:

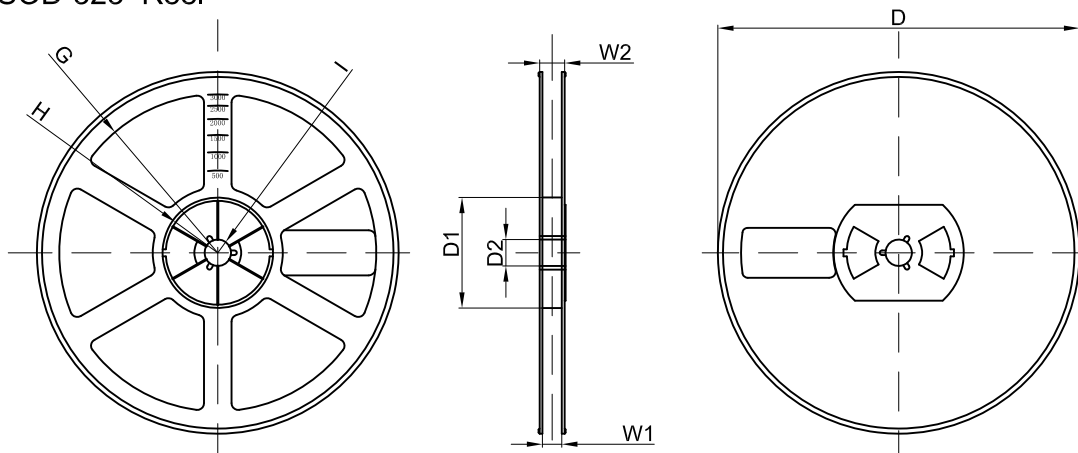
SOD-323 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts in standard option are shipped with 3,000 units per 7" or 17.8cm diameter reel. The reels are clear in color and is made of polystyrene plastic (anti-static coated).

Dimensions are in millimeter										
Pkg type	A	B	C	d	E	F	P0	P	P1	W
SOD-323	1.48	3.3	1.25	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

SOD-323 Tape Leader and Trailer



SOD-323 Reel



Dimensions are in millimeter								
Reel Option	D	D1	D2	G	H	I	W1	W2
7"Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

**Ordering Information:**

Device PN	Packing
SCS501V -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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