

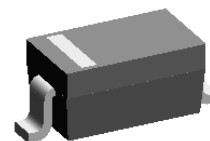
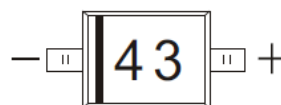
PRIMARY CHARACTERISTICS	
P_D	200mW
V_{RRM}	40V
I_F	200mA
$V_F@I_F=10mA$	500mV
$T_{STG\ Max}$	150°C

FEATURES

- LOW Turn-on Voltage
- Fast Switching
- PN Junction Guard for Transient and ESD Protection
- Designed for Surface Mount Application
- Moisture Sensitivity Level 1

SOD-323

PACKAGE

**Marking Code: 43**

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 @T_A=25

Parameter	Symbol	Limits	Unit
Peak Repetitive Peak reverse voltage	V_{RRM}		
Working Peak Reverse Voltage	V_{RWM}	40	V
DC Blocking Voltage	V_R		
Forward Continuous Current	I_F	200	mA
Peak forward surge current @<1.0s	I_{FSM}	600	mA
Power Dissipation	P_d	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500	°C/W
Storage temperature	T_{STG}	-55 to +150	°C

NOTES:

Work in normal at 0 to 25°C

Work in decreasing the power at 25°C to 70°C

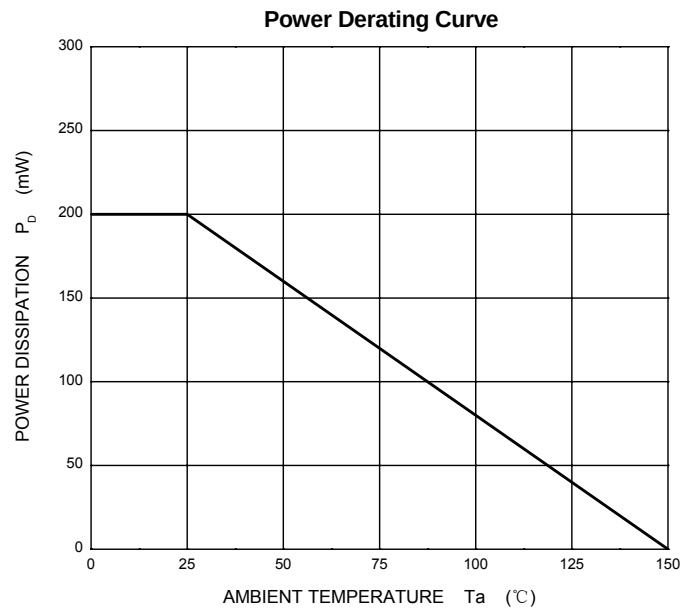
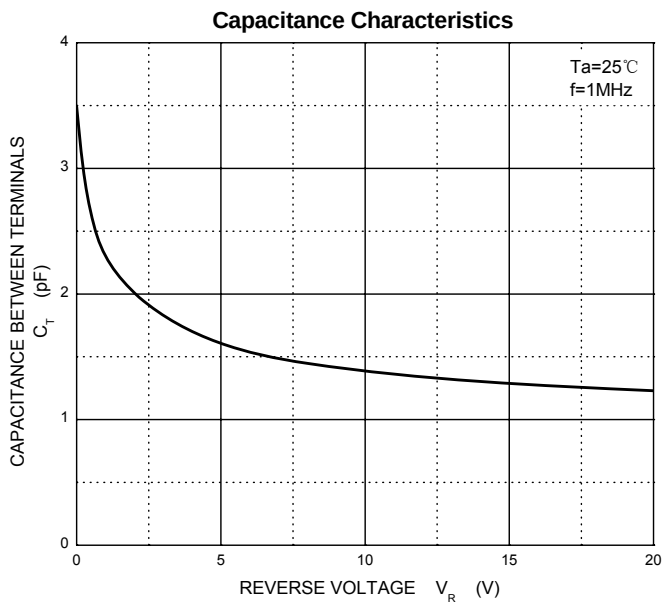
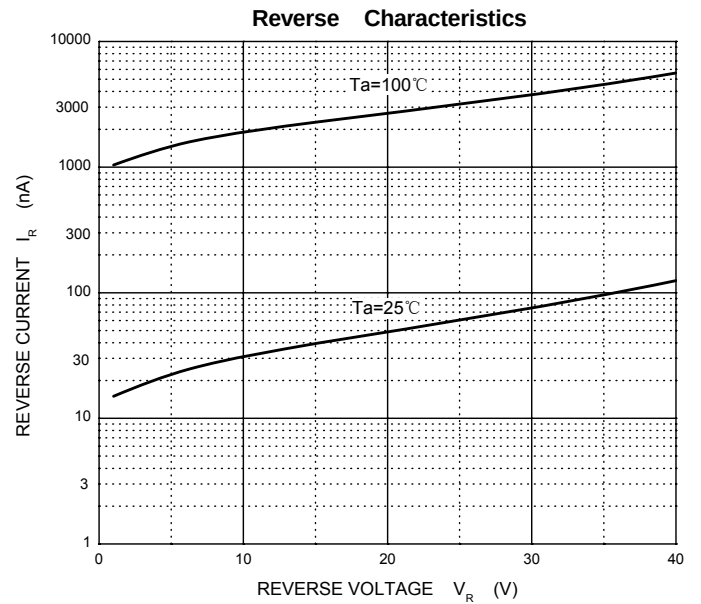
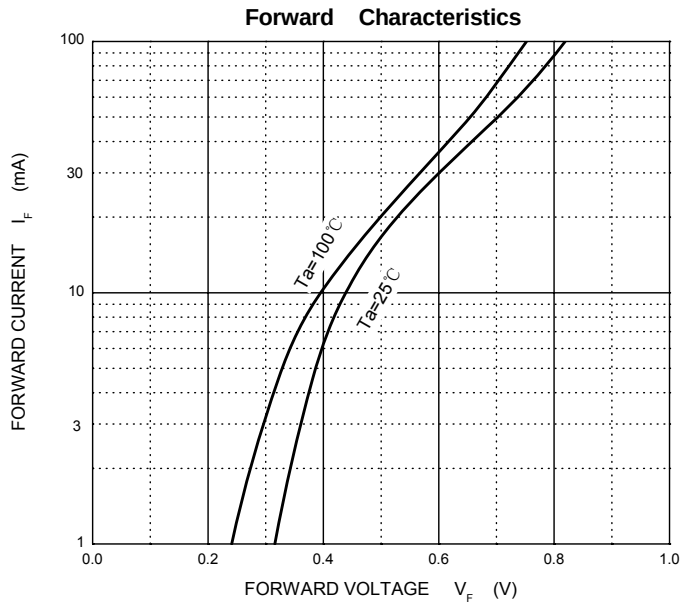
Above 70 °C isn't the temperature scope for civil use.

Electrical Ratings @T_A=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse Breakdown Voltage	$V_{(BR)R}$	40			V	$I_R=10\mu A$
Forward voltage	V_{F1}			0.38	V	$I_F=1mA$
	V_{F2}			0.5	V	$I_F=10mA$
	V_{F3}			1	V	$I_F=40mA$
Reverse current	I_R		20	200	nA	$V_R=30V$
Capacitance between terminals	C_T		4	5	pF	$V_R=0V, f=1MHz$
Reverse Recovery Time	t_{rr}			5	ns	$I_F=I_R=10mA$ $I_{rr}=0.1X I_R, R_L=100\Omega$



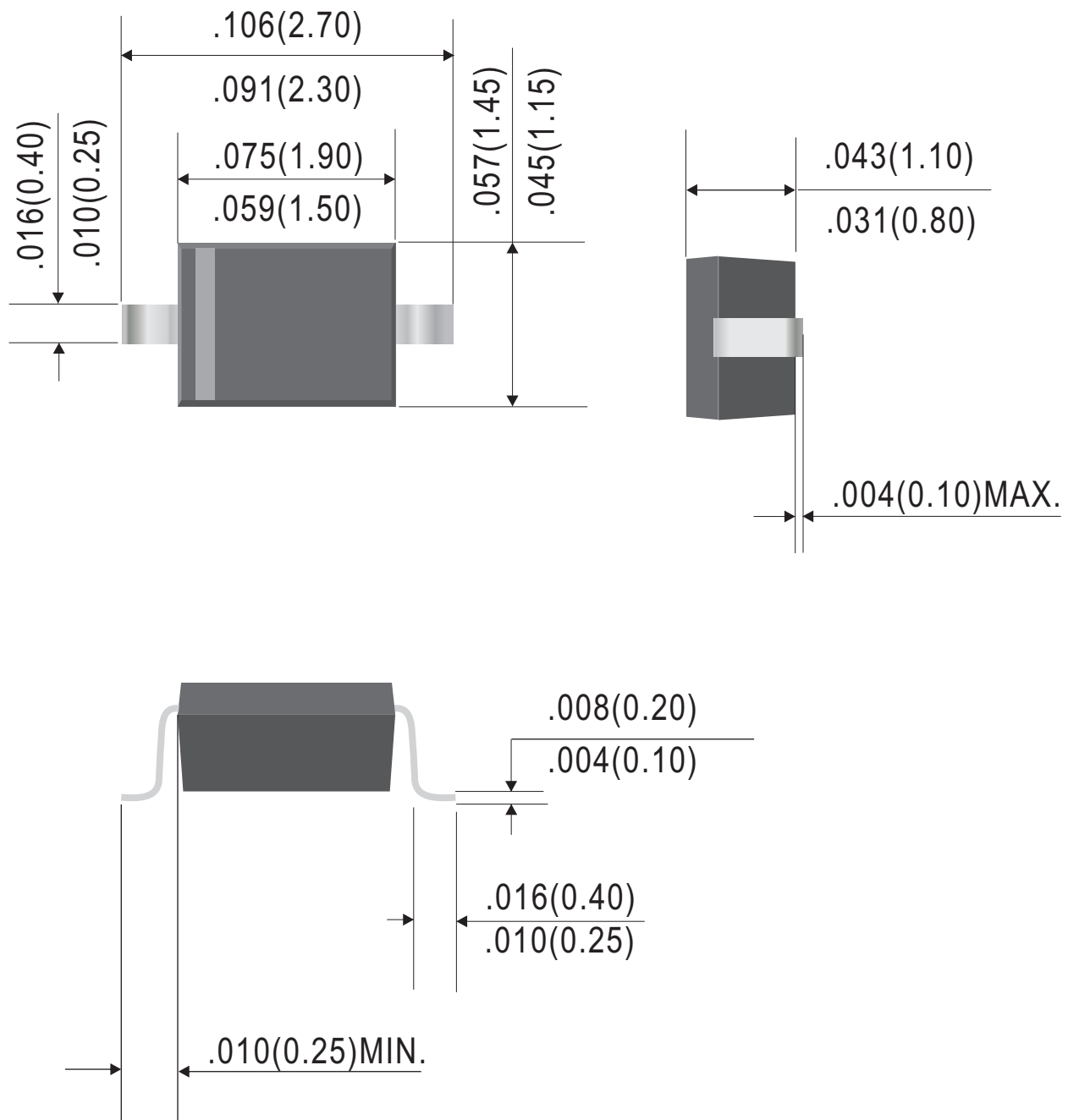
Typical Characteristics





Outline Drawing

SOD-323

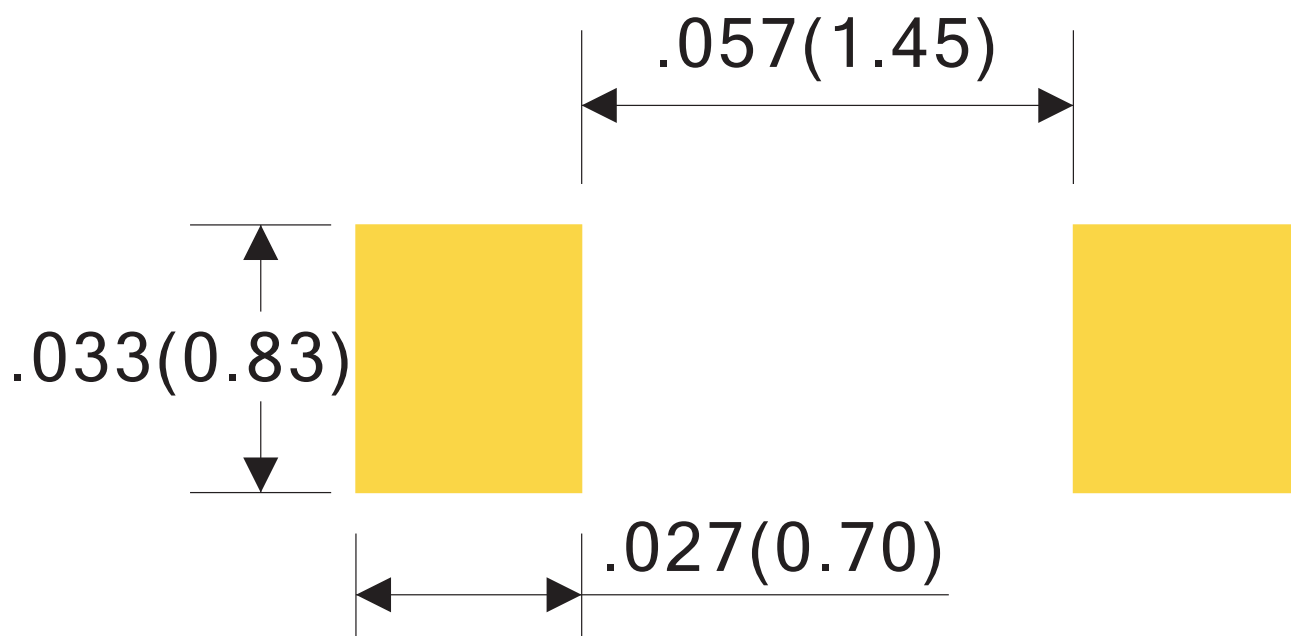


Dimensions in inches and (millimeters)

Rev.C

Suggested Soldering Pad Layout

SOD-323

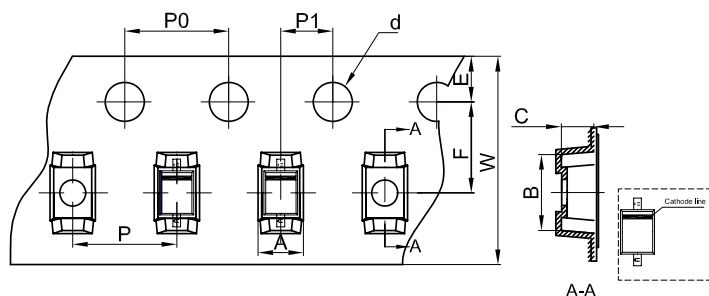


Dimensions in inches and (millimeters)

RevA

SOD-323 Tape and Reel

SOD-323 Embossed Carrier Tape



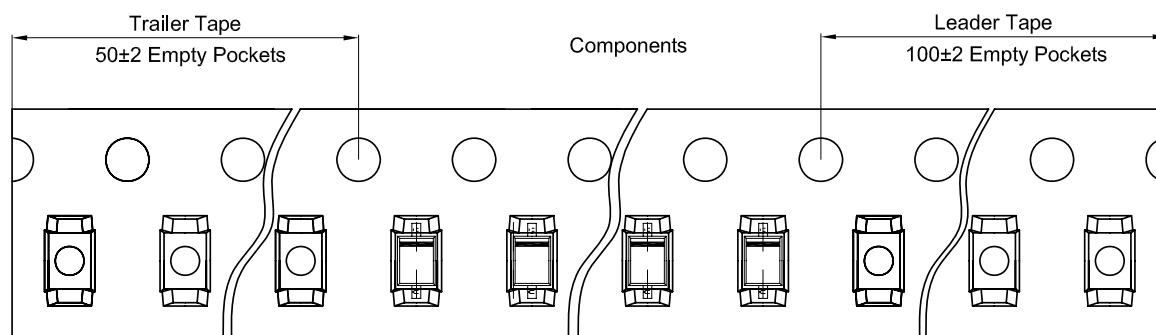
Packaging Description:

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).

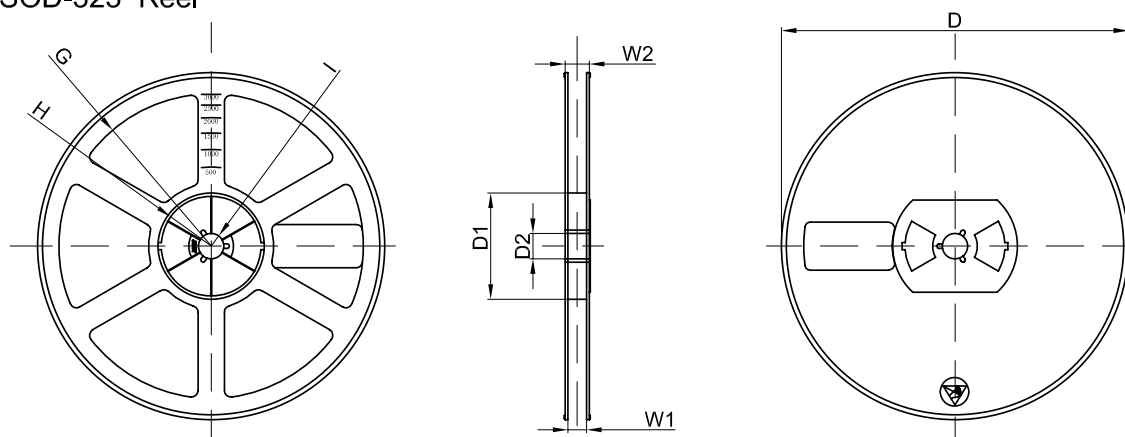
Note: If it is the product of the same polarity, the cathode line should be removed.

[illegible]

SOD-323 Tape Leader and Trailer



SOD-323 Reel

[illegible]

REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	45,000 pcs	203×203×195	180,000 pcs	438×438×220	

Ordering Information:

Device PN	Packing
BAS40WS -T ⁽¹⁾ G ⁽²⁾ -WS	Tape&Reel: 3 Kpcs/Reel

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

(2) RoHS product for packing code suffix "G" ; Halogen free product for packing code suffix "H"

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