

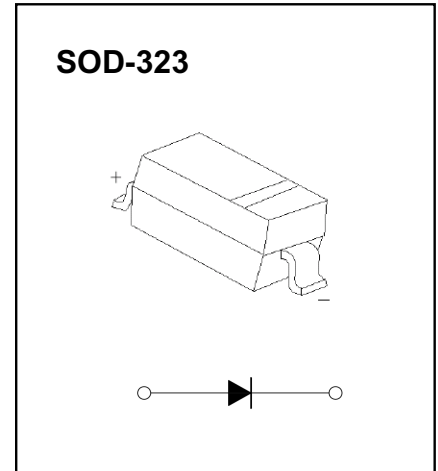
## ■ Features

- High Current Capability
- Low Forward Voltage Drop
- Negligible Reverse Recovery Time
- Guard Ring Construction for Transient Protection

## ■ Mechanical Data

- package:SOD-323
- Polarity: Color band denotes cathode end
- Mounting Position: Any

## ■ Ordering Information



Part Number	Package	Marking	Packing	Quantity per reel	Reel Size
SD103AWS	SOD-323	S4	Tape & Reel	3,000 PCS	7 inches
SD103BWS	SOD-323	S5	Tape & Reel	3,000 PCS	7 inches
SD103CWS	SOD-323	S6	Tape & Reel	3,000 PCS	7 inches

## ■ Maximum Ratings & Thermal Characteristics(Ratings at 25°C ambient temperature unless otherwise specified.)

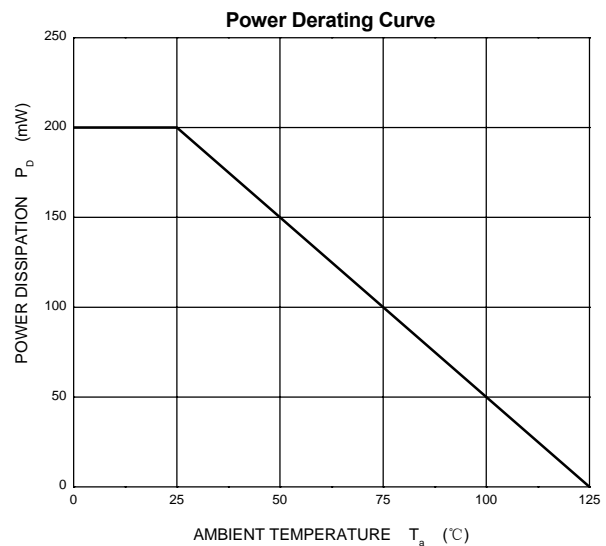
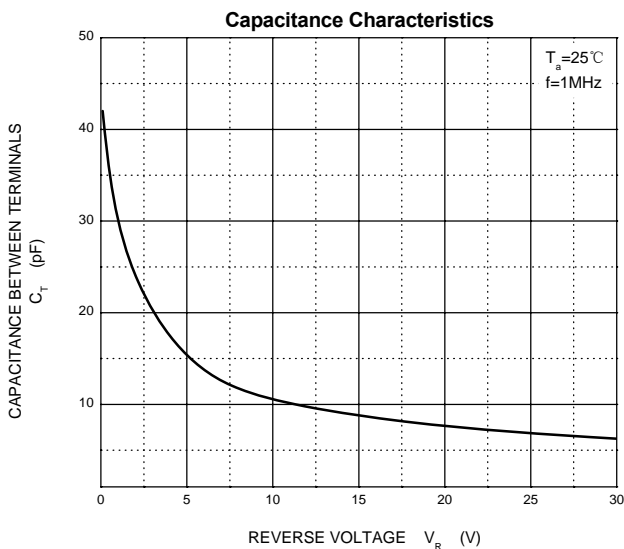
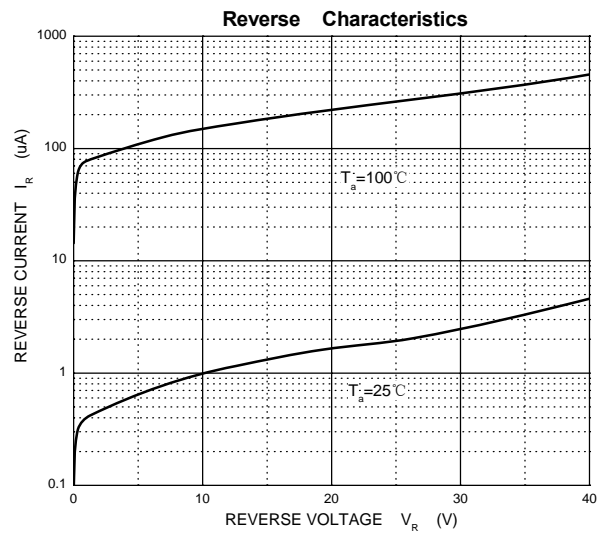
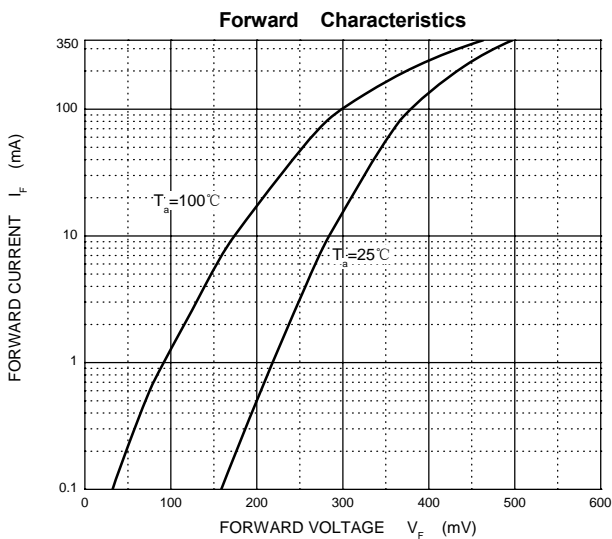
Parameters	Symbol	SD103AWS	SD103BWS	SD103CWS	Unit
Maximum repetitive peak reverse voltage	VRRM	40	30	20	V
Maximum RMS voltage	VRMS	28	21	14	V
Maximum DC blocking voltage	VDC	40	30	20	V
Maximum average forward rectified current	IFM	350			mA
Peak forward surge current 8.3ms single half sine-wave	IFSM	1.5			A
Power Dissipation	PD	200			mW
Typical thermal resistance	RθJA	500			°C/W
Operating junction temperature	Tj	125			°C
Storage temperature range	TSTG	-50-+150			°C



■ **Electrical Characteristics**(Ratings at 25 °C ambient temperature unless otherwise specified)

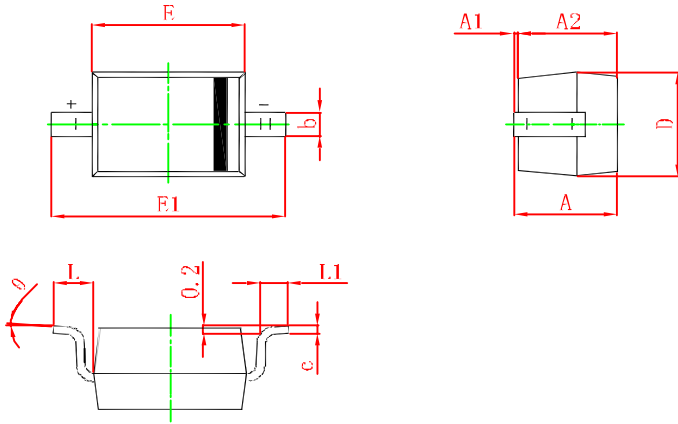
Parameters	Symbol	Test conditions	SD103AWS	SD103BWS	SD103CWS	Unit
Maximum forward voltage	V <sub>F</sub>	I <sub>F</sub> = 20mA I <sub>F</sub> = 200mA	0.370 0.600			V
Maximum reverse breakdown voltage	V <sub>R</sub>	I <sub>R</sub> =100uA	40	30	20	V
Maximum reverse current	I <sub>R</sub>	V <sub>R</sub> =30V <b>SD103AWS</b> V <sub>R</sub> =20V <b>SD103BWS</b> V <sub>R</sub> =10V <b>SD103CWS</b>	5.0			uA
Type junction capacitance	C <sub>j</sub>	V <sub>R</sub> =0V, f = 1MHz	50			pF
Reverse recovery time	T <sub>rr</sub>	I <sub>F</sub> =I <sub>R</sub> =200mA, I <sub>rr</sub> =0.1xI <sub>R</sub> ,R <sub>L</sub> =100 Ω	10			ns

■ **Typical Characteristics**





■ SOD-323 Package Outline Dimensions



Symbol	Min	Max.(mm)
A		1.000
A1	0.000	0.100
A2	0.800	0.900
b	0.250	0.350
c	0.080	0.150
D	1.200	1.400
E	1.600	1.800
E1	2.500	2.700
L	0.475REF	
L1	0.250	0.400
$\theta$	0°	8°