JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD
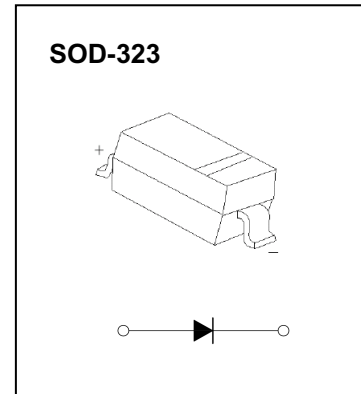
SOD-323 Plastic-Encapsulate Diodes

SD103AWS-SD103CWS SCHOTTKY BARRIER DIODE

SOD-323

FEATURES

- **Low Forward Voltage Drop**
- **Guard Ring Construction for Transient Protection**
- **Negligible Reverse Recovery Time**
- **Low Reverse Capacitance**

MARKING: SD103AWS: S4
SD103BWS: S5
SD103CWS: S6

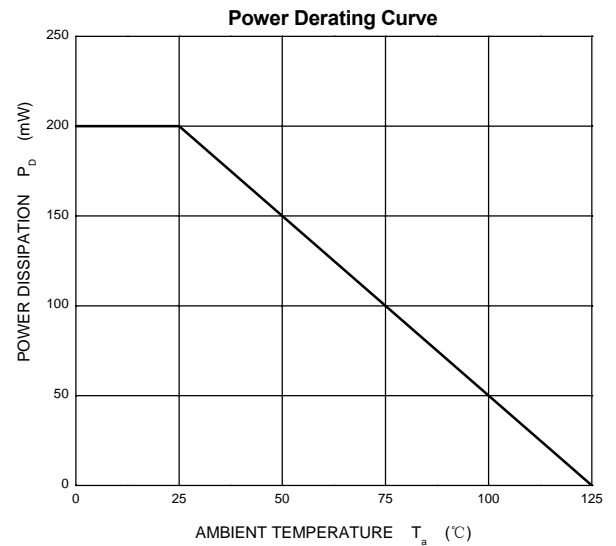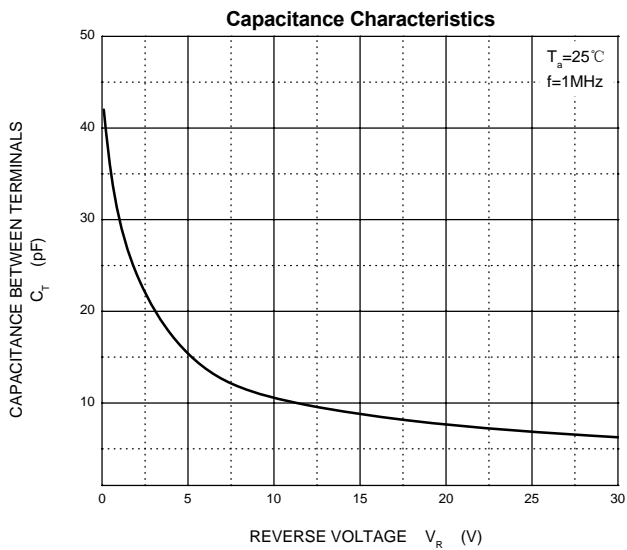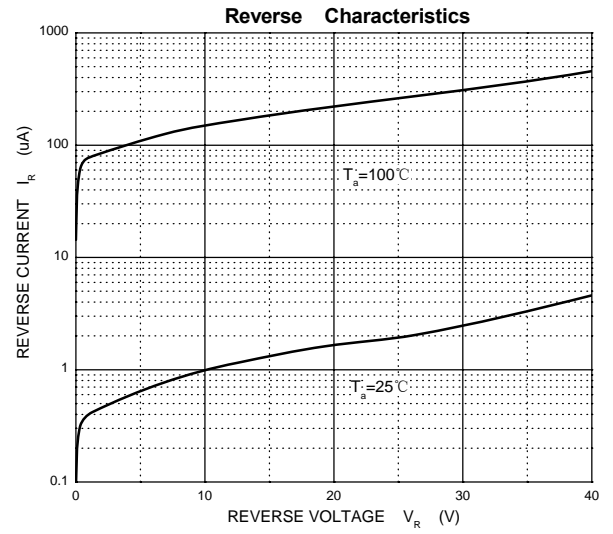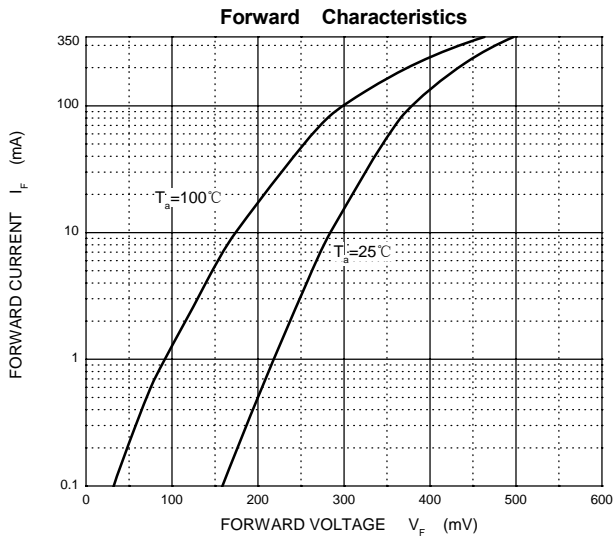### Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25℃

Parameter	Symbol	SD103AWS	SD103BWS	SD103CWS	Unit
Peak Repetitive Peak Reverse Voltage	V_{RRM}				
Working Peak Reverse Voltage	V_{RWM}	40	30	20	V
DC Blocking Voltage	V_R				
RMS Reverse Voltage	$V_{R(RMS)}$	28	21	14	V
Forward Continuous Current	I_{FM}	350			mA
Bcb!fepetitive Peak Forward Surge Current @t≤1s	I_{FSM}	1.5			A
Power Dissipation	Pd	200			mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500			℃/W
Junction Temperature	Tj	125			℃
Storage Temperature	T_{STG}	-55~+150			℃

Electrical Ratings @Ta=25℃

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Reverse breakdown voltage SD103AWS SD103BWS SD103CWS	$V_{(BR)R}$	40 30 20			V	I_R=100μA I_R=100μA I_R=100μA
Forward voltage	V_F			0.37 0.60	V	I_F=20mA I_F=200mA
Reverse current SD103AWS SD103BWS SD103CWS	I_{RM}			5.0	μA	V_R=30V V_R=20V V_R=10V
Capacitance between terminals	C_T			50	pF	V_R=0V,f=1.0MHz
Reverse recovery time	t_{rr}		10		ns	I_F=I_R=200mA Irr=0.1XI_R,R_L=100Ω

Typical Characteristics   SD103AWS

Forward Characteristics

FORWARD CURRENT I_F (mA)

T_a=100℃

T_a=25℃

FORWARD VOLTAGE V_F (mV)

Reverse Characteristics

REVERSE CURRENT I_R (uA)

T_a=100℃

T_a=25℃

REVERSE VOLTAGE V_R (V)

Capacitance Characteristics

T_a=25℃
f=1MHz

CAPACITANCE BETWEEN TERMINALS C_T (pF)

REVERSE VOLTAGE V_R (V)

Power Derating Curve

POWER DISSIPATION P_D (mW)

AMBIENT TEMPERATURE T_a (℃)

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