HFZT

SD103AWS-SD103CWS

Schottky Barrier Diode

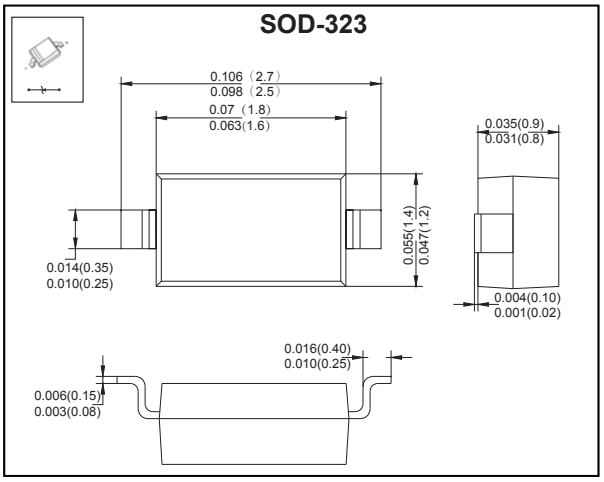
VOLTAGE RANGE: 20V-40V PEAK PULSE POWER:200mW

FEATURES

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

MECHANICAL DATA

- Case: SOD-323 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- Mounting Position: Any



MAXIMUM RATINGS AND CHARACTERISTICS

Ratings at 25 C ambient temperature unless otherwise specified

Parameter	Symbol	SD103AWS	SD103BWS	SD103CWS	Unit
Peak Repetitive Peak Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	40	30	20	V
RMS Reverse Voltage	$V_{R(RMS)}$	28	21	14	V
Forward Continuous Current	I_{FM}	350			mA
□□□□epetitive Peak Forward Surge Current @t=8.3ms	I_{FSM}	2.0			A
Power Dissipation	Pd	200			mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500			℃/W
Junction Temperature	T_j	125			℃
Storage Temperature	T_{STG}	-55~+150			℃

Electrical Specification (T_A=25°C unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Reverse breakdown voltage SD103AWS SD103BWS SD103CWS	$V_{(BR)}$	 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

MARKING:

SD103AWS	SD103BWS	SD103CWS
S4	S5	S6

RATINGS AND CHARACTERISTIC CURVES

Typical Characteristics