

SD103BW -

SMALL SIGNAL DIODE VOLTAGE RANGE 30 Volts

FEATURES

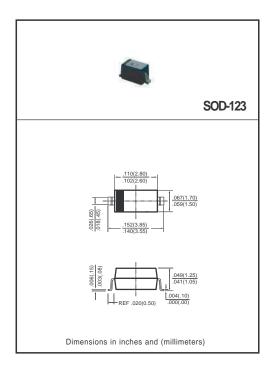
- * Low Forward Voltage Drop
- * Guard Ring Construction for Transient Protection
- * Negligible Reverse Recovery Time
- * Low Reverse Capacitance

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-O rate flame retardant
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any * Weight: 0.01 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



$\textbf{MAXIMUM RATINGS}~(@~\text{TA=25}~^{\circ}\text{C}~\text{unless otherwise noted})$

RATINGS	SYMBOL	SD103BW	UNITS
Reverse Breakdown Voltage @I _R =10μA	V _{(BR)R}	30	Volts
Maximum Repetitive Peak Reverse Voltage Maximum Working Peak reverse Voltage Maximum DC Blocking Voltage	V _{RRM} V _{RWM} V _R	30	Volts
Maximum RMS Voltage	V _R (RMS)	21	Volts
Maximum Forward Comtinuous Current	I _{FM}	350	mAmps
Repetitive Peak Forward Current @t<1.0S	I _{FRM}	1.5	Amps
Typical Reverse Recovery Time(I _F =I _R =200mA,I _{ff} =0.1X _{IR} ,R _L =100)	Trr	10	nS
Typical Junction Capacitance(V _R =0V,f=1.0MHz)	CT	50	pF
Maximum Power Dissipation	PD	400	mW
Typical Thermal Resistance	R JA	300	°C/W
Operating and Storage Temperature Range	T _{STG}	-65 to + 125	°C

ELECTRICAL CHARACTERISTICS (@TA=25 °C unless otherwise noted)

CHARACTERISTICS		SYMBOL	SD103BW	UNITS
Maximum Instantaneous Forward Voltage	@I _F =20mA @I _F =200mA	V _F	0.37 0.60	Volts
Maximum Instantaneous Reverse Current	@V _R =20V	I _R	5.0	μAmps

RATING AND CHARACTERISTICS CURVES (SD103BW)

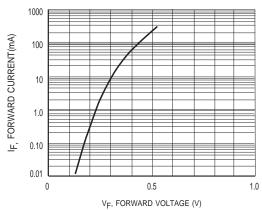


Figure1 Typical Forward Characteristics

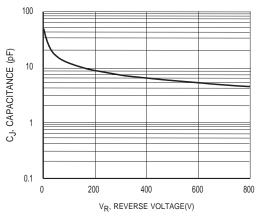


Figure2 Typical Junction Capactitance vs Reverse Voltage

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