

SD101BW -

SMALL SIGNAL DIODE

VOLTAGE RANGE 50 Volts

FEATURES

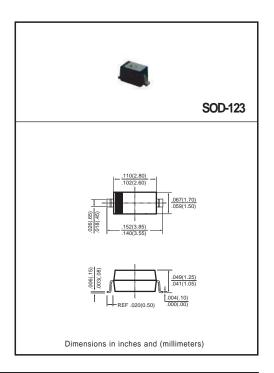
- * Low Forward Voltage Drop
- * Guard Ring Construction for Transient Protection
- * Negligible Reverse Recovery Time

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%.



MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

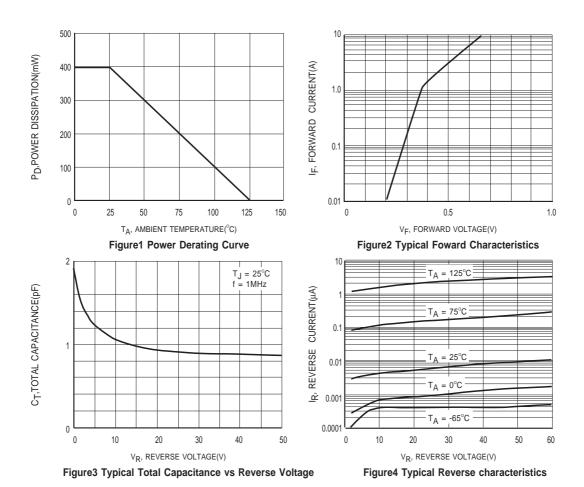
RATINGS		SYMBOL	SD101BW	UNITS
Maximum Repetitive Peak Reverse Voltage Maximum Working Peak reverse Voltage Maximum DC Blocking Voltage		VRRM VRWM VR	50	Volts
Maximum RMS Voltage		V _{RMS}	35	Volts
Maximum Reverse Breakdown Voltage(IR=10μA)		V(BR)R	50	Volts
Forward Continuous Current		I _{FM}	15	mAmps
Non-Repetitive Peak Forward Surge Current	@t<1.0s @t=10μs	I _{FSM}	50 2.0	mAmps Amps
Typical Reverse Recovery Time(I _F =I _R =5mA,I _{II} =0.1X _{IR} ,R _L =100Ω)		Trr	1.0	nS
Typical Junction Capacitance(V _R =0V,f=1MHz)		C _T	2.1	pF
Maximum Power Dissipation		P _D	400	mW
Typical Thermal Resistance		R _{⊖JA}	300	°C/W
Operating and Storage Temperature Range		T _J ,T _{STG}	-65 to + 125	°C

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

CHARACTERISTICS		SYMBOL	SD101BW	UNITS
Maximum Instantaneous Forward Voltage	@I _F =1.0mA	V _F	0.40	Volts
	@I _F =15mA		0.95	
Maximum Instantaneous Reverse Current	@ V _R =40V	I _R	0.2	uAmps

2006-3

RATING AND CHARACTERISTICS CURVES (SD101BW)



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