

FEATURES

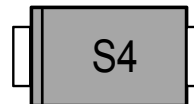
- Low-Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Negligible Reverse-Recovery Time
- Low Reverse Capacitance
- Ultra-Small Surface-Mount Package

MECHANICAL DATA

- Package: SOD123
- Package Material: Molded Plastic.
UL Flammability Classification Rating 94V-0
- Polarity: Cathode Band



Marking: **S4**



VOLTAGE RANGE

40.0 Volts

CURRENT

0.35Ampere

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	SD103AW	UNITS
Maximum Recurrent Peak Reverse Voltage	40	V
Maximum RMS Voltage	28	V
Maximum DC Blocking Voltage	40	V
Maximum Average Forward Rectified Current See Fig. 1	0.35	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	2	A
Maximum Instantaneous Forward Voltage at 0.2A	0.6	V
Maximum DC Reverse Current Ta=25°C	0.05	mA
at Rated DC Blocking Voltage Ta=100°C	8	mA
Typical Junction Capacitance (Note1)	20	pF
Typical Thermal Resistance R JA (Note 2)	400	°C/W
Operating Temperature Range Tj	-65 — +125	°C
Storage Temperature Range Tstg	-65 — +150	°C

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Ambient.

RATING AND CHARACTERISTIC CURVES

FIG.1-TYPICAL Forward Current Derating Curve

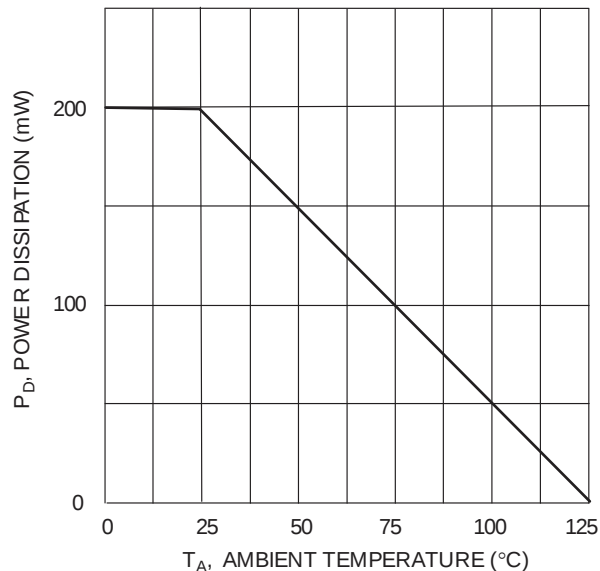


Fig. 2 Typical Forward Characteristics

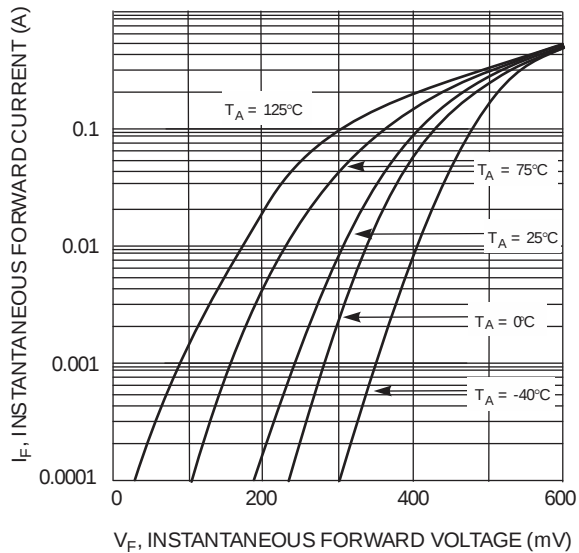


Fig. 3 Typical Reverse Characteristics

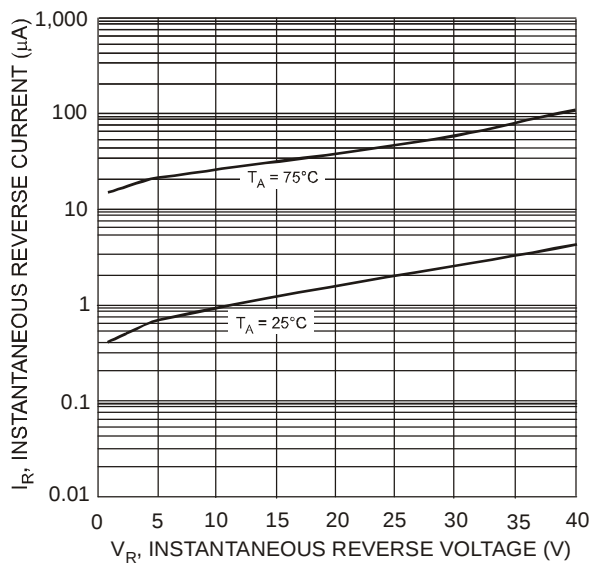
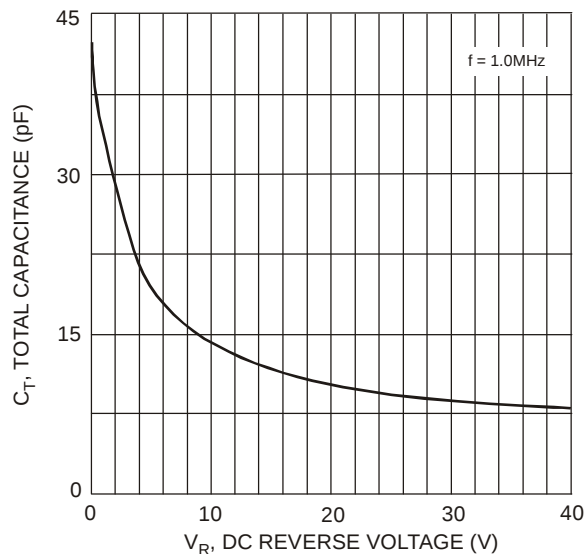
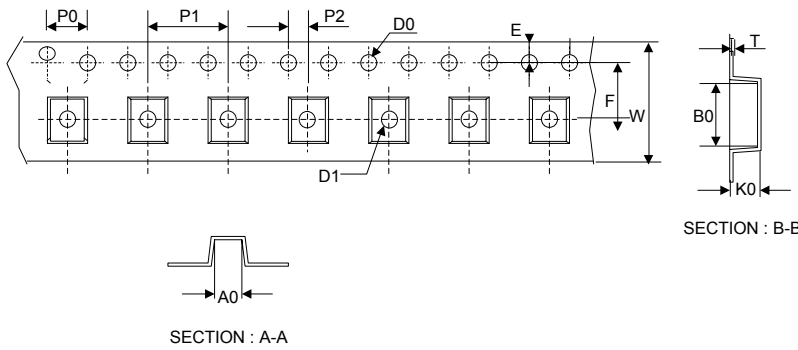
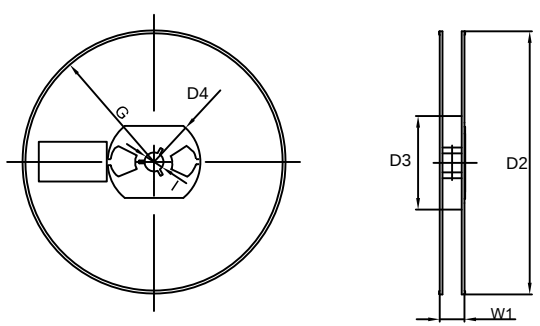


Fig. 4 Total Capacitance vs. Reverse Voltage



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Tape & reel specification

Tape		Symbol	Dimension (mm)
		P0	4.00±0.20
		P1	4.00±0.20
		P2	2.00±0.20
		D0	1.55±0.10
		D1	1.00±0.20
		E	1.75±0.20
		F	3.60±0.20
		W	8.00±0.40
		A0	2.30±0.40
		B0	4.00±0.40
		K0	1.50±0.40
		T	0.23±0.10
			
7" Reel		D2	17.0±3.0
		D3	55Min.
		D4	R24.0±3.0
		G	R82.0±3.0
		I	13.0±2.0
		W1	11.0±3.0
		Quantity: 3000PCS	