GOODWORK

SD103AWS

0.35AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

FEATURES

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance

MECHANICAL DATA

* Case: Molded plastic
* Lead: Axial leads, solderable per MIL-STD-750, method 2026
* Polarity:Polarity symbols marked on case
* Marking: S4

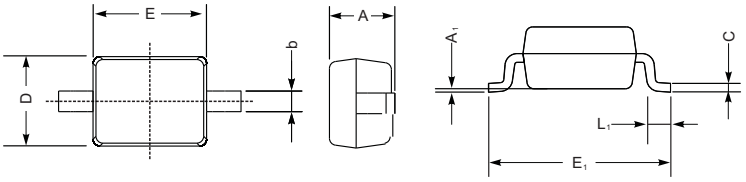
VOLTAGE RANGE

40 Volts

CURRENT

0.35Ampere

SOD323



UNIT		A	C	D	E	E_1	b	L_1	A_1
mm	max	1.1	0.15	1.4	1.8	2.75	0.4	0.45	0.2
	min	0.8	0.08	1.2	1.4	2.55	0.25	0.2	—
mil	max	43	5.9	55	70	108	16	16	8
	min	32	3.1	47	63	100	9.8	7.9	—

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	SD103AWS	UNITS
Maximum Recurrent Peak Reverse Voltage	40	V
Maximum RMS Voltage	21	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℃	0.05	mA
at Rated DC Blocking Voltage Ta=100℃	8	mA
Typical Junction Capacitance (Note1)	20	pF
Typical Thermal Resistance R JA (Note 2)	400	℃/W
Operating Temperature Range T_J	-65 —+125	℃
Storage Temperature Range T_{STG}	-65 — +150	℃

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal Resistance Junction to Ambient.

RATING AND CHARACTERISTIC CURVES (SD103AWS)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

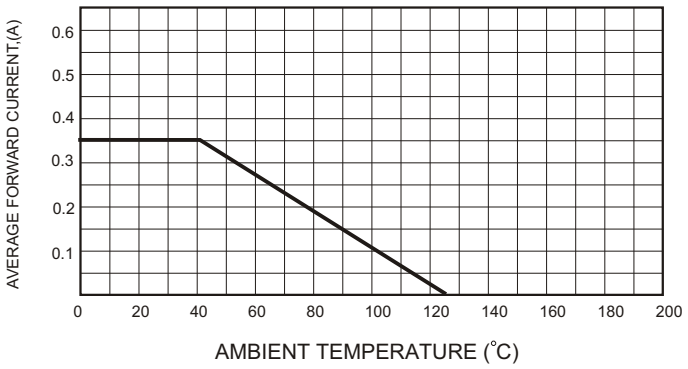


FIG.2-TYPICAL FORWARD CHARACTERISTICS

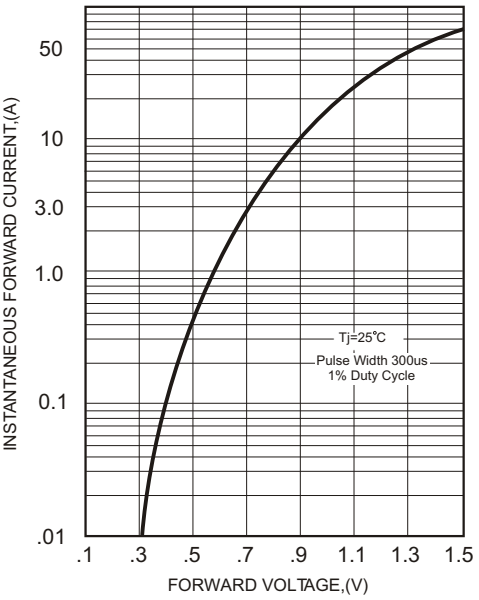


FIG.3 - **Power Derating Curve**

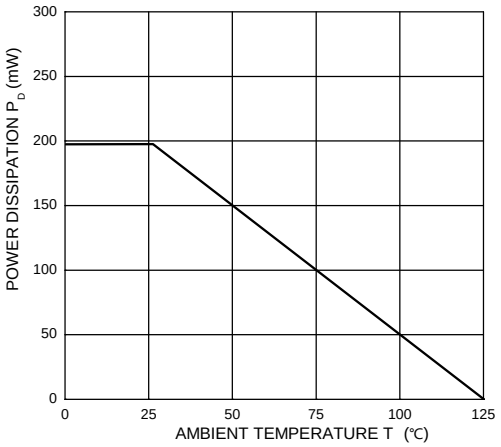


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FIG.4-TYPICAL JUNCTION CAPACITANCE

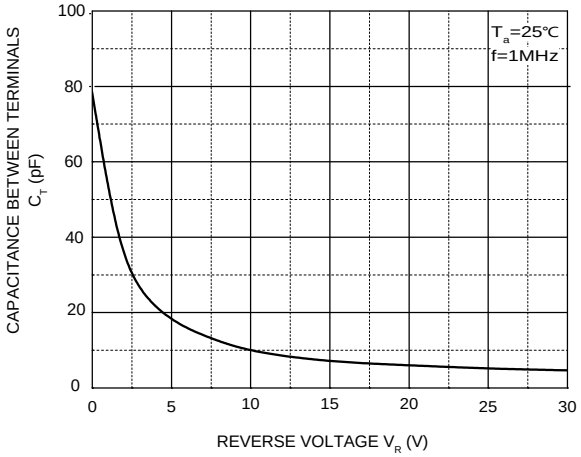

FIG.5 - TYPICAL REVERSE CHARACTERISTICS