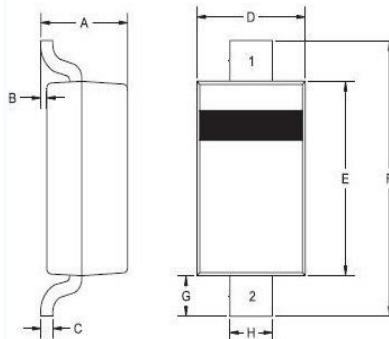


FEATURES

- * Ideal for surface mount applications
- * Easy pick and place
- * High temperature soldering guaranteed:
260°C / 10 seconds at terminals

MECHANICAL DATA

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



SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.037	0.053	0.95	1.35
B	0.000	0.005	0.00	0.12
C	-	0.008	-	0.20
D	0.055	0.071	1.40	1.80
E	0.098	0.110	2.50	2.80
F	0.142	0.154	3.60	3.90
G	0.016	-	0.40	-
H	0.020	0.028	0.50	0.70

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	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 $T_a=25^\circ\text{C}$	0.05	mA
at Rated DC Blocking Voltage $T_a=100^\circ\text{C}$	8	mA
Typical Junction Capacitance (Note1)	20	pF
Typical Thermal Resistance R_{JA} (Note 2)	340	°C/W
Operating Temperature Range T_j	-65 — +125	°C
Storage Temperature Range T_{stg}	-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 (SD103AW)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

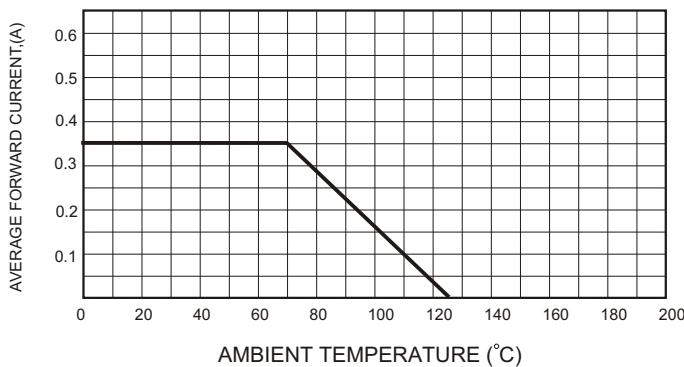


FIG.3 - Power Derating Curve

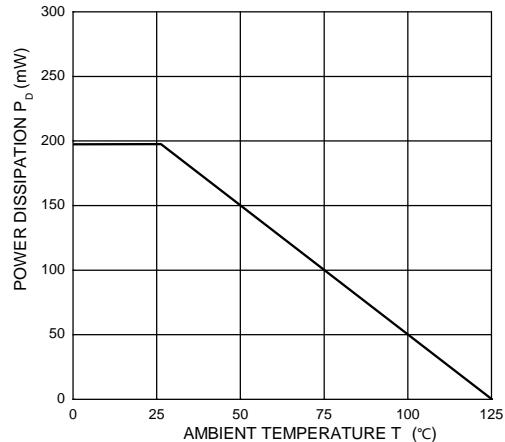


FIG.4-TYPICAL JUNCTION CAPACITANCE

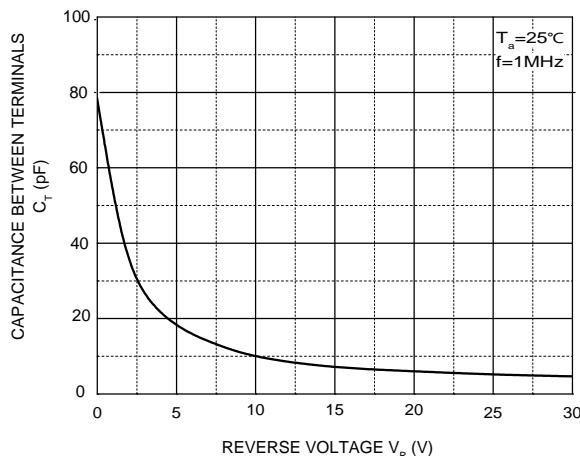


FIG.2-TYPICAL FORWARD CHARACTERISTICS

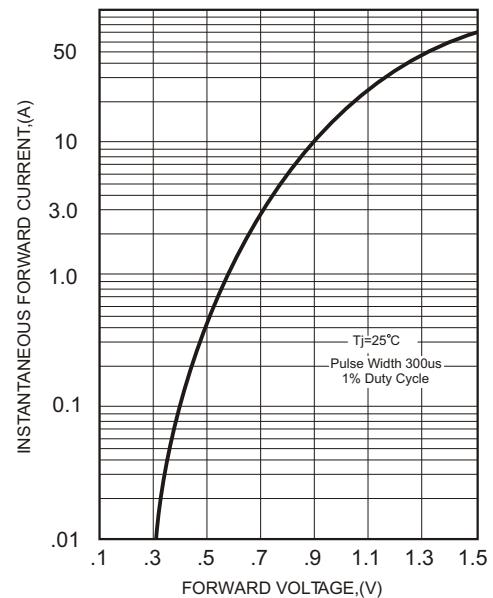


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

