



FUKUCOM COMPANY LTD.

福 靈 有 限 公 司

FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,
KWUN TONG, KOWLOON, HONG KONG.
TEL: 2790-0314 FAX: 2790-0206

	RECTIFIER SPECIALISTS	SD103AWS THRU SD103CWS
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TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SCHOTTKY BARRIER DIODES
VOLTAGE RANGE - 20 to 40 Volts CURRENT - 0.35 Ampere

FEATURES

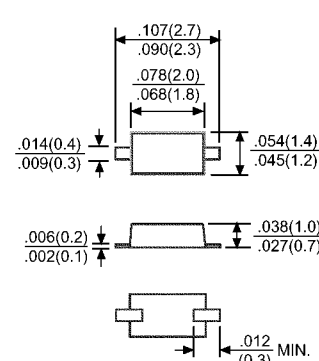
- * For general purpose applications
- * Low turn-on voltage
- * Fast switching time
- * Protected by a PN junction guard ring against excessive voltage, such as electrostatic discharge(ESD)

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Solder plated, solderable per MIL-STD-202E, Method 208 guaranteed
- * Mounting position: Any
- * Weight: 0.008 grams Approx.

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

SOD-323



Dimensions in inches and (millimeters)

	SYMBOL	SD103AWS	SD103BWS	SD103CWS	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	40	30	20	Volts
Maximum RMS Voltage	VRMS	28	21	14	Volts
Maximum DC Blocking Voltage	Vbc	40	30	20	Volts
Maximum Average Forward Rectified Current at TA=25°C	IO	0.35			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	2.0			Amps
Maximum Instantaneous Forward Voltage	@ IF=0.2A	0.6			Volts
	@ IF=0.02A	0.37			
Maximum DC Reverse Current	Ir	5.0 @ Vr=30V	5.0 @ Vr=20V	5.0 @ Vr=10V	µAmps
Typical Thermal Resistance (Note1)	RθJA	300			°C/W
Typical Junction Capacitance (Note 2)	Cj	50			pF
Storage Operating Temperature Range	Tj, Tstg	-55 to + 125			°C

Note: 1. Terminals maintained at specified at ambient temperature.
2. Measured at 1 MHz and applied reverse voltage of 0 volts.



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RATING AND CHARACTERISTIC CURVES (SD103AWS THRU SD103CWS)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

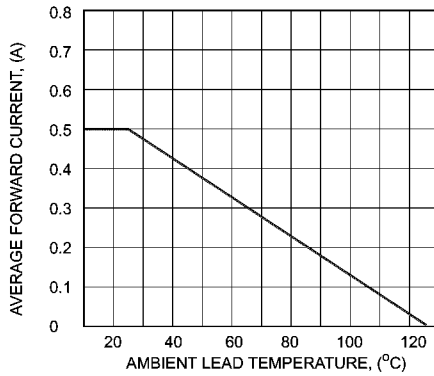


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

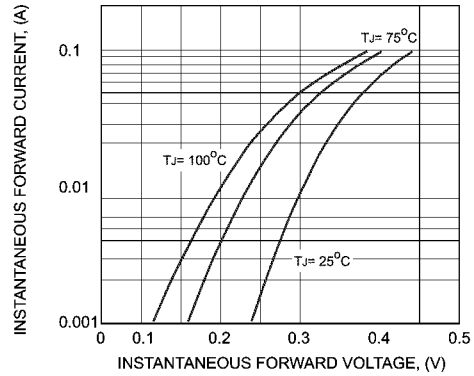


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

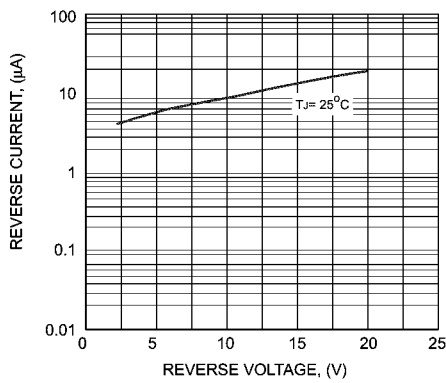


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

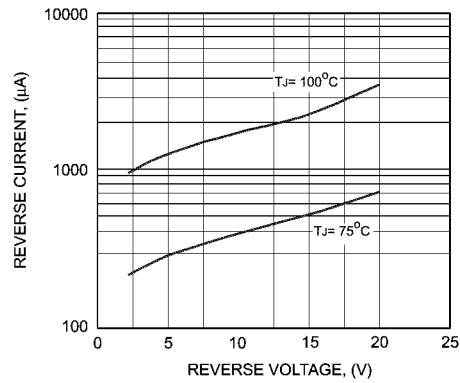


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

