

SCHOTTKY BARRIER DIODE

SD103AW THRU SD103CW

VOLTAGE RANGE CURRENT 20 To 40 Volts 350 mA

FEATURES

- Fast Switching speed
- Low forward voltage
- Low capacitance
- Guard ring for transient and ESD protection
- Also available in the DO-35 package as SD103A and Mini-Melf as LL103A

MECHANICAL DATA

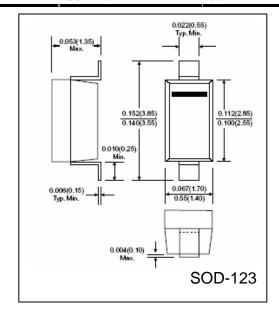
Case: SOD-123 Plastic

• Terminals: solderable per MIL-STD-202

Method 208

• Polarity: Color band denotes cathode end

• Weight: 0.00035 ounce, 0.01 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

• Ratings at 25°C ambient temperature unless otherwise specified

	SYMBOLS	SD103CW	SD103BW	SD103CW	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	40	30	20	Volt
Continuous Reverse Voltage	V_R	40	30	20	Volt
RMS Reverse Voltage	V_{rms}	28	21	14	Volt
Forward Continuous Current (Note 1)	I_{FM}	350			mA
Repetitive Peak Forward Surge Current @ T = 1.0S	I_{FSM}	1.55			Amps
Non-Repetitive Peak Forward Surge Current 8.3 mS	I_{FSM}	15			Amps
Maximum Forward Voltage @ 20mA 200mA	V_{F}	0.37 0.60			Volts
Maximum Leakage Current, @ $T_J = 25^{\circ}$	I_R	5.0 @V _F =30V	5.0 @V _F =20V	5.0 @V _F =10V	μА
Maximum Reverse Recovery Time $I_F = 10\text{mA}, \ I_R = 10\text{mA}, \ I_{RR} = 1\text{mA}, \ R_L = 100\Omega$	t _{rr}	10			nS
Power dissipation (Note 1)	P_{TOT}	400			mW
Typical Junction Capacitance , $V_F = 1V$, $f = 1MHz$	C_{J}	50			pF
Typical Thermal Resistance	$R_{ heta JA}$	300			^o C/W
Operating Junction Temperature Range	T_{J}	(-55 to +150)			°C
Storage Temperature Range	T_{STG}	(-55 to +150)			°C

Notes:

1. Valid provided terminals are kept at ambient



RATINGS AND CHARACTERISTIC CURVES SD103AW THRU SD103CW

