

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

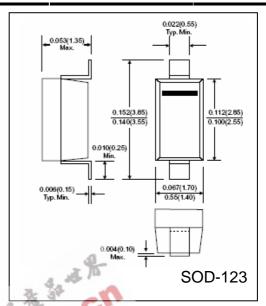
• Case: SOD-123 Plastic

• 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° | I_R | 5.0 @V _F =30V | 5.0 @V _F =20V | 5.0 @V _F =10V | μA |
| Maximum Reverse Recovery Time $I_F = 10\text{mA}, I_R = 1\text{mA}, I_R = 1\text{mA}, R_L = 100\Omega$ | 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

