



SCHOTTKY BARRIER DIODE

SD101AW THRU SD101CW

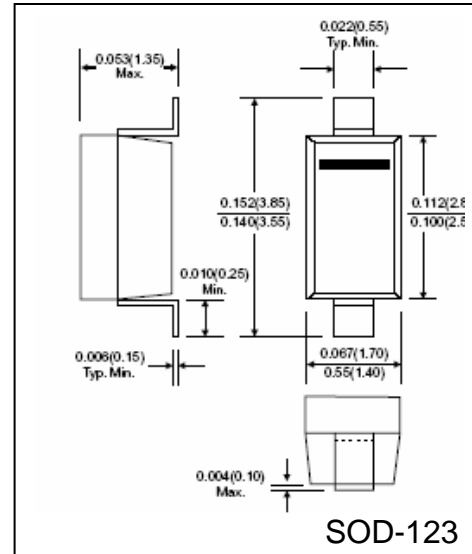
VOLTAGE RANGE	40 To 60 Volts
CURRENT	15 mA

FEATURES

- Fast Switching speed
- Low forward voltage
- Low capacitance
- Guard ring for transient and ESD protection
- Also available in the DO-35 package as SD101A and Mini-MELF as LL101A

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	SD101CW	SD101BW	SD101CW	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	60	50	40	Volt
Continuous Reverse Voltage	V_R	60	50	40	Volt
RMS Reverse Voltage	V_{rms}	42	35	28	Volt
Forward Continuous Current (Note 1)	I_{FM}	15			mA
Non-Repetitive Peak Forward Surge Current @ $T = 1.0\mu S$ $T = 1.0S$	I_{FSM}	50			mA
Peak Forward Surge Current @ $T_F < 1$ Sec, $T_A = 25^\circ C$	I_{FSM}	2.0			Amps
Maximum Forward Voltage @ 1.0mA 15mA	V_F	0.41 1.0	0.4 0.95	0.39 0.90	Volts
Maximum Leakage Current, @ $T_j = 25^\circ$	I_R	200 @ $V_F = 50V$	200 @ $V_F = 40V$	200 @ $V_F = 30V$	nA
Maximum Reverse Recovery Time $I_F = 10mA, I_R = 10mA, I_{RR} = 1mA, R_L = 100\Omega$	t_{rr}	1			nS
Power dissipation (Note 1)	P_{TOT}	400			mW
Typical Junction Capacitance, $V_F = 1V, f = 1MHz$	C_J	2.0	2.1	2.2	pF
Typical Thermal Resistance	$R_{\theta JA}$	300			$^\circ C/W$
Operating Junction Temperature Range	T_J	(-55 to +150)			$^\circ C$
Storage Temperature Range	T_{STG}	(-55 to +150)			$^\circ C$

Notes:

1. Valid provided terminals are kept at ambient



RATINGS AND CHARACTERISTIC CURVES SD101AWTHRU SD101CW

