



SURFACE MOUNT DUAL SWITCHING DIODE

BAW56

VOLTAGE RANGE
CURRENT

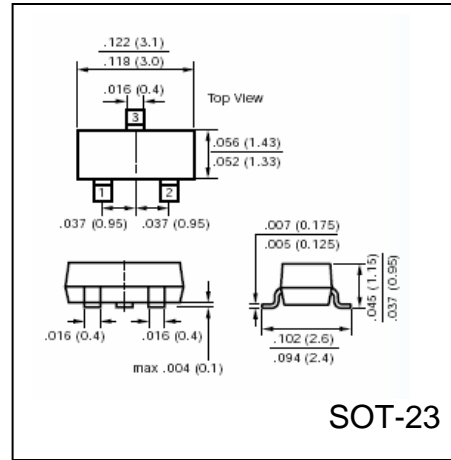
100 Volts
150 mA

FEATURES

- Fast Switching speed
- Low turn on Voltage
- General purpose switching applications
- High Conductance

MECHANICAL DATA

- Case: Transfer molded plastic, SOT-23
- Terminals: solderable per MIL-STD-202E Method 208C
- Pinout: See diagram
- Weight: 0.00028 ounce, 0.008gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25°C ambient temperature unless otherwise specified

	SYMBOLS		UNIT
Non-Repetitive Peak Reverse Voltage	V_R	100	Volt
Maximum Repetitive Peak Reverse Voltage	V_{RM}	75	Volts
Forward Continuous Current	I_{FM}	300	mA
Non-Repetitive Peak Forward Surge Current @ $T = 1.0\mu S$ $T = 1.0S$	I_{FSM}	2.0 1.0	Amps
Maximum Forward Voltage @ 1.0mA 10mA 50mA 150mA	V_F	0.715 0.855 1.0 1.25	Volts
Maximum Leakage Current, (Note 1) @ $V_R = 75V$ $V_R = 75V, T_J = 150^\circ C$ $V_R = 25V, T_J = 150^\circ C$	I_R	2.5 50 30	μA
Maximum Reverse Recovery Time $I_F = 10mA, I_R = 10mA, I_{RR} = 1mA, R_L = 100\Omega$	t_{rr}	4	nS
Power dissipation (Note 1)	P_{TOT}	350	mW
Typical Junction Capacitance, $V_F = 1V, f = 1MHz$	C_J	2.0	pF
Typical Thermal Resistance	$R_{\theta JA}$	355	$^\circ C/W$
Operating Junction Temperature Range	T_J	(-55 to +150)	$^\circ C$
Storage Temperature Range	T_{STG}	(-55 to +150)	$^\circ C$

Notes:

1. Short duration pulse test used



RATINGS AND CHARACTERISTIC CURVES BAW56

