Lead Free
RoHS Compliant

SURFACE MOUNT SCHOTTKY BARRIER DIODE

BAS40 / -04 / -05 / -06

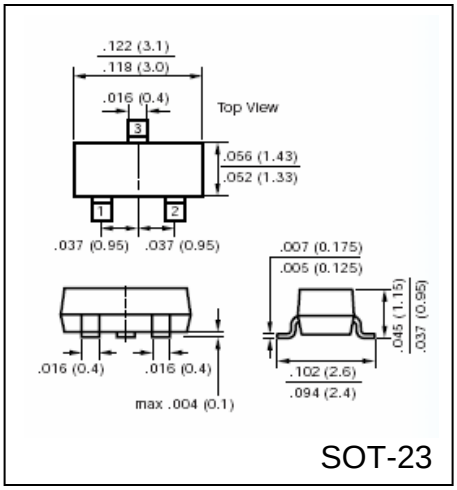
VOLTAGE RANGE **40 Volts**
CURRENT **200 mA**

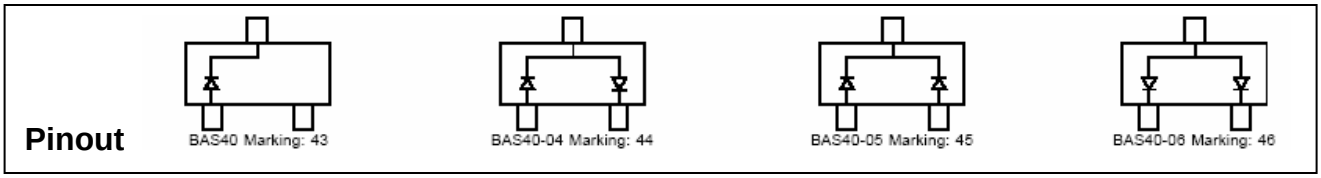
FEATURES

- Fast Switching speed
- Low turn on Voltage
- Guard ring for transient and ESD protection

MECHANICAL DATA

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





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25^{O}C ambient temperature unless otherwise specified

	SYMBOLS		UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	40	Volts
Forward Continuous Current @ T_A = 25^{O}C (Note 1)	I_F	200	mA
Non-repetitive Peak Forward Surge Current@ $T_P \leq 1$ Sec	I_{FSM}	600	mA
Minimum Reverse Breakdown Voltage, I_R = 10µA	V_{BRR}	40	Volts
Maximum Forward Voltage @ 1.0mA 40mA	V_F	380 1000	mV
Maximum Leakage Current, T_μ< 300µS, V_R = 30V	I_R	200	nA
Maximum Reverse Recovery Time I_F = 10mA, I_R=10mA, I_{RR} = 1mA, R_L = 100Ω	t_{rr}	5	nS
Power dissipation (Note 1)	P_{TOT}	350	mW
Typical Junction Capacitance , V_F = 1V, f = 1MHz	C_J	5	pF
Typical Thermal Resistance	$R_{\theta JA}$	355	^{O}C/W
Operating Junction Temperature Range	T_J	(-55 to +125)	^{O}C
Storage Temperature Range	T_{STG}	(-55 to +150)	^{O}C

Notes:

1. Provided terminals are kept at ambient temperature