

DUAL SURFACE MOUNT SWITCHING DIODE

BAV70	VOLTAGE RANGE CURRENT	75 Volts 300 mAmps
FEATURES	.122 (3.1)	

.118 (3.0)

.016 (0.4)

2

.037 (0.95)

max .004 (0.1)

1

.037 (0.95)

Top View

.056 (1.43)

.052 (1.33)

.007 (0.175)

102 (2.6

.094 (2.4)

SOT-23

- High speed switching
- Guard ring construction for transient protection
- Low reverse leakage
- High Temperature soldering guaranteed: 260 °C / 10 second, 0.375" (9.5mm) lead length

MECHANICAL DATA

- Case: SOT-23 molded plastic
- Lead: Terminal, solderable per MIL-STD-202 Method 208
- Polarity: see pin out below
- Weight: 0.0045 ounce, 0.008gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

• Ratings at 25°C ambient temperature unless otherwise specified

	SYMBOLS		UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	75	Volts
Forward Continuous Current (Note 1)	I_F	300	mA
Non-repetitive Peak Forward Surge Current@ $T_P \leq 1.0 \mu$ Sec $T_P \leq 1.0 \mu$ Sec	I _{FSM}	2.0 1.0	Amps
Maximum Forward Voltage @ 1.0mA 10mA 50mA 150mA	\mathbf{V}_{F}	0.715 0.0855 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	1.0 50 30	μΑ
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}	200	mW
Typical Junction Capacitance , $V_F = 1V$, $f = 1MHz$	C _J	2	pF
Typical Thermal Resistance	$R_{\theta JA}$	355	^o C/W
Operating Junction Temperature Range	T _J	(-55 to +125)	°C
Storage Temperature Range	T _{STG}	(-55 to +150)	°C

Notes:

1. Valid provided leads kept at ambient temperature



