

SOT23 SILICON PLANAR HIGH SPEED SWITCHING DIODES

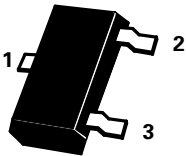
ISSUE 2 - JUNE 1995

BAL99
BAR99

PIN CONFIGURATIONS



PARTMARKING DETAILS
BAL99 - E2
BAR99 - E3



SOT23

ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Continuous Reverse Voltage	V_R	70	V
Repetitive Peak Reverse Voltage	V_{RRM}	70	V
Average Rectified Forward Current (over any 20mS Period)	$I_{F(AV)}$	100	mA
Repetitive Peak Forward Current	I_{FRM}	200	mA
Power Dissipation at $T_{amb}=25^{\circ}C$	P_{tot}	330	mW
Operating and Storage Temperature Range	$T_j; T_{stg}$	-55 to +150	$^{\circ}C$

CHARACTERISTICS (at $T_{amb} = 25^{\circ}C$ unless otherwise stated).

PARAMETER	SYMBOL	MIN.	MAX.	UNIT	CONDITIONS.
Forward Voltage	V_F		715 855 1.1 1.3	mV mV V V	$I_F=1mA$ $I_F=10mA$ $I_F=50mA$ $I_F=100mA$
Reverse Current	I_R		30 2.5 50	μA μA μA	$V_R=25V, T_j=150^{\circ}C$ $V_R=70V$ $V_R=70V, T_j=150^{\circ}C$
Diode Capacitance	C_d		1.5	pF	$f=1MHz$
Forward Recovery Voltage	V_{fr}		1.75	V	Switched to $I_F=10mA, t_r=20ns$
Reverse Recovery Time	t_{rr}		6	ns	Switched from $I_F=10mA, V_R=1V$ $R_L=100\Omega, I_R=1mA$

Spice parameter data is available upon request for this device
For switching circuit information refer to BAV99 datasheet.