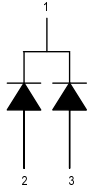


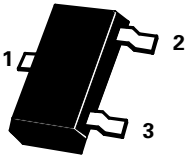
**SOT23 SILICON PLANAR HIGH SPEED
SWITCHING DIODE PAIR COMMON CATHODE**
ISSUE 2 – JANUARY 1995

BAV70

PIN CONFIGURATION



PARTMARKING DETAIL
BAV70 – A4



SOT23

ABSOLUTE MAXIMUM RATINGS.

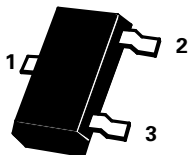
PARAMETER	SYMBOL	VALUE	UNIT
Continuous Reverse Voltage	V_R	70	V
Repetative Reverse Voltage	V_{RRM}	70	V
Average Forward Rectified Current (over any 20ms period)	$I_{F(AV)}$	100	mA
Repetative Peak Forward Current	I_{FRM}	200	mA
Power Dissipation at $T_{amb}=25^{\circ}C$	P_{tot}	330	mW
Operating and Storage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

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

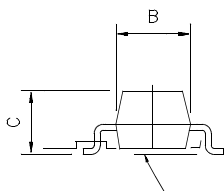
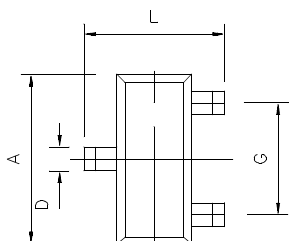
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITIONS.
Forward Voltage	V_F			715 855 1.1 1.3	mV mV V V	$I_F = 1mA$ $I_F = 10mA$ $I_F = 50mA$ $I_F = 100mA$
Reverse Current	I_R			60 5.0 100	μA μA μA	$V_R=25V, T_j = 150^{\circ}C$ $V_R = 70V$ $V_R = 70V, T_j = 150^{\circ}C$
Diode Capacitance	C_d			1.5	pF	$f=1MHz$
Forward Recovery Time	V_{fr}			1.75	V	Switched to $I_F = 10mA, t_r = 20ns$
Reverse Recovery Time	t_{rr}			6	ns	Switched from $I_F = 10mA$ to $V_R = 1V$

* For switching test circuit diagram, refer to BAV99 datasheet
Spice parameter data is available upon request for this device

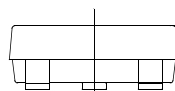
BAV70



DIM	Millimeters		Inches	
	Min	Max	Min	Max
A	2.67	3.05	0.105	0.120
B	1.20	1.40	0.047	0.055
C	–	1.10	–	0.043
D	0.37	0.53	0.0145	0.021
F	0.085	0.15	0.0033	0.0059
G	NOM 1.9		NOM 0.075	
K	0.01	0.10	0.0004	0.004
L	2.10	2.50	0.0825	0.0985
N	NOM 0.95		NOM 0.37	



STAND OFF HEIGHT K



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