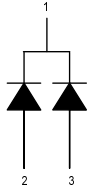


SOT23 SILICON PLANAR HIGH SPEED SWITCHING DIODE PAIR COMMON CATHODE

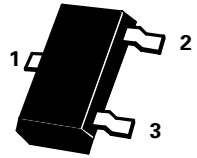
ISSUE 2 – JANUARY 1995

BAV70

PIN CONFIGURATION



PARTMARKING DETAIL
BAV70 – A4



SOT23

ABSOLUTE MAXIMUM RATINGS.

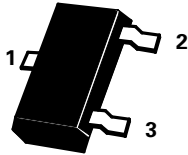
PARAMETER	SYMBOL	VALUE	UNIT
Continuous Reverse Voltage	V_R	70	V
Repetative Reverse Voltage	V_{RRM}	70	V
Average Forward Rectified Current (over any 20ms period)	$I_{F(AV)}$	100	mA
Repetative Peak Forward Current	I_{FRM}	200	mA
Power Dissipation at $T_{amb}=25^{\circ}C$	P_{tot}	330	mW
Operating and Storage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

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

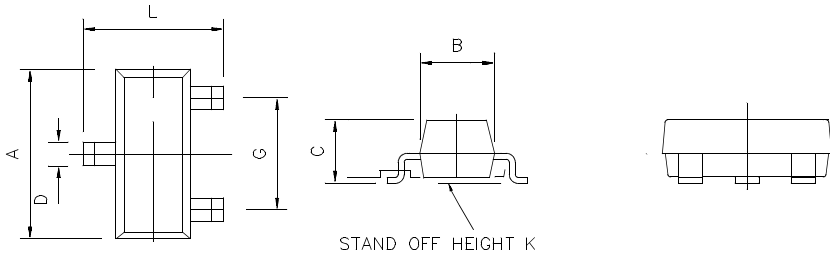
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITIONS.
Forward Voltage	V_F			715	mV	$I_F = 1mA$
				855	mV	$I_F = 10mA$
				1.1	V	$I_F = 50mA$
				1.3	V	$I_F = 100mA$
Reverse Current	I_R			60	μA	$V_R=25V, T_j = 150^{\circ}C$
				5.0	μA	$V_R = 70V$
				100	μA	$V_R = 70V, T_j = 150^{\circ}C$
Diode Capacitance	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	



Zetex plc.
 Fields New Road, Chadderton, Oldham, OL9-8NP, United Kingdom.
 Telephone: (44)161-627 5105 (Sales), (44)161-627 4963 (General Enquiries)
 Facsimile: (44)161-627 5467

Zetex GmbH
 Streitfeldstraße 19
 D-81673 München
 Telefon: (49) 89 45 49 49 0
 Fax: (49) 89 45 49 49 49

Zetex Inc.
 87 Modular Avenue
 Commack NY11725
 Telephone: (516) 543-7100
 Fax: (516) 864-7630

Zetex (Asia) Ltd.
 3510 Metroplaza, Tower 2
 Hing Fong Road, Kwai Fong
 Telephone: (852) 26100 611
 Fax: (852) 24250 494

These are supported by
 agents and distributors in
 major countries world-wide
 © Zetex plc 1995

This publication is issued to provide outline information only which (unless agreed by the Company in writing) may not be used, applied or reproduced for any purpose or form part of any order or contract or be regarded as a representation relating to the products or services concerned. The Company reserves the right to alter without notice the specification, design, price or conditions of supply of any product or service.