BAV99

Small Signal Diode

Features

- RoHS compliant package

Mechanical Data

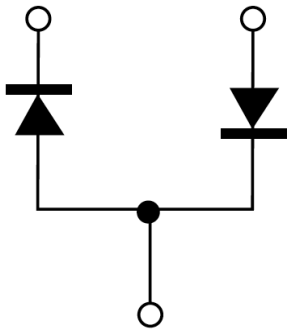
- Case: SOT-23 Molded plastic
- Epoxy: UL94V-O rate flame retardant

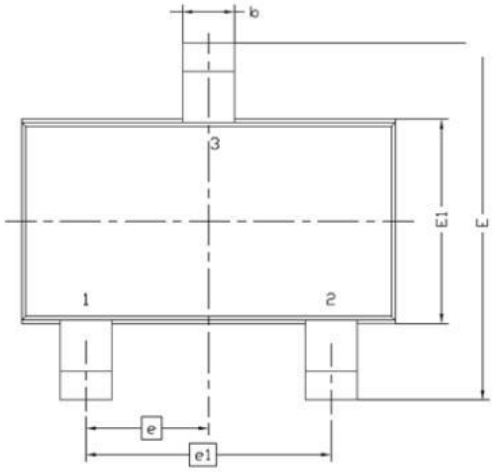
Packing & Order Information

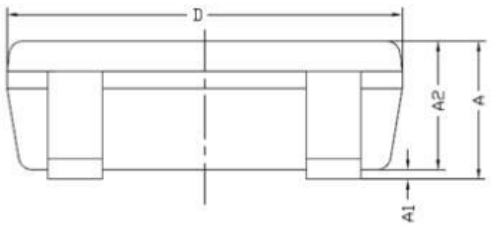
3,000/Reel

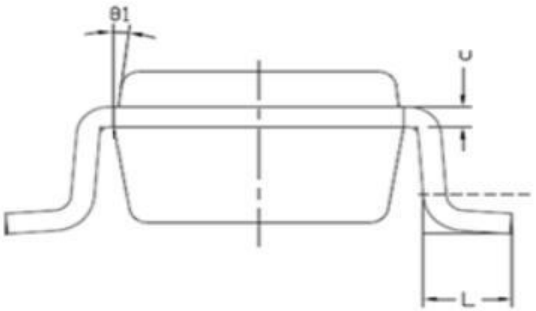
RoHS
COMPLIANT

Graphic symbol









Symbol	MILLIMETERS	
	MIN	MAX
A	0.8	1.2
A1	0	0.1
A2	0.7	1.1
b	0.3	0.5
c	0.1	0.2
D	2.7	3.1
E	2.6	3
E1	1.4	1.8
e	0.95 BSC	
e1	1.9 BSC	
L	0.3	0.6
θ1	7° NOM	

BAV99

Small Signal Diode

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Maximum Ratings (T_A=25°C unless otherwise specified)				
Symbol	Parameter	MIN	MAX	Unit
PD(Ta=25°C)	Power dissipation		225	mW
IF	Forward Current		200	mA
VR	Reverse Voltage VR		80	V
T_J/T_{STG}	Junction and Storage Temperature		-55 to +150	°C
V(BR)	Reverse Breakdown Voltage(IR=100uA)	70	--	V
IR	Reverse Leakage Current(VR=200V)		0.5	uA
VF	Forward Voltage(Test Condition) IF=1mA IF=10mA IF=50mA IF=150mA		 715 855 1000 1250	mV
CD	Diode Capacitance (VR=0V, f=1MHz)		1.5	pF
Trr	Reverse Recovery Time		6	nS

BAV99

Small Signal Diode

■Characteristics Curve

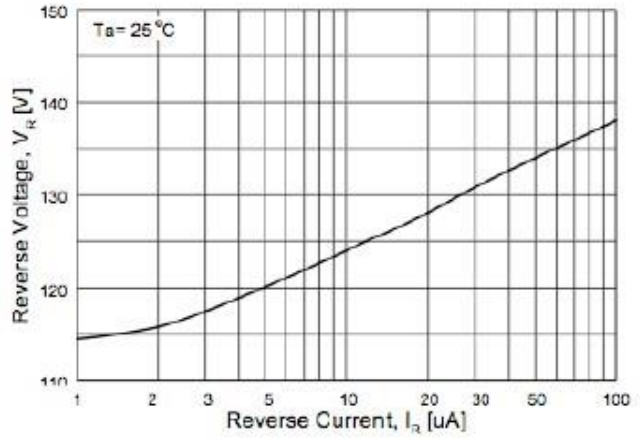


FIG.1-REVERSE VOLTAGE VS REVERSE CURRENT BV -1.0 TO 100 uA

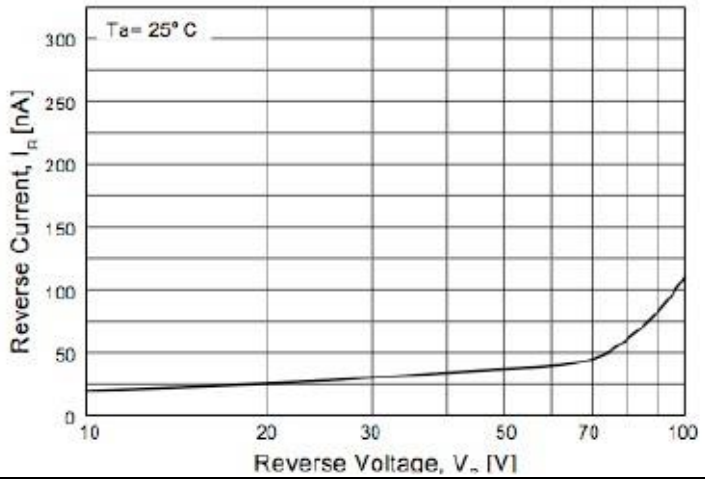


FIG.2-REVERSE CURRENT VS REVERSE VOLTAGE IR-10 TO 100 V

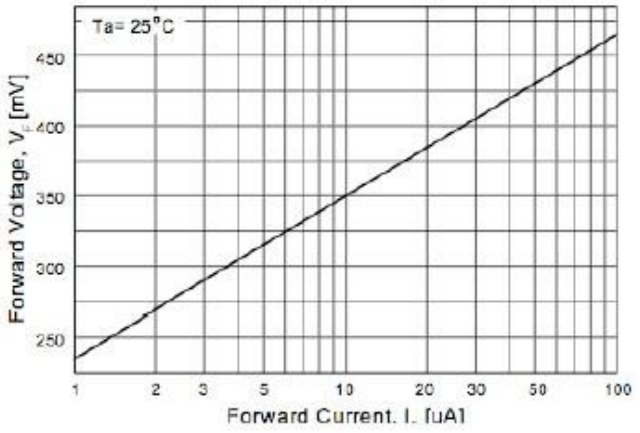


FIG.3- FORWARD VOLTAGE VS FORWARD CURRENT VF-1.0 TO 100 uA

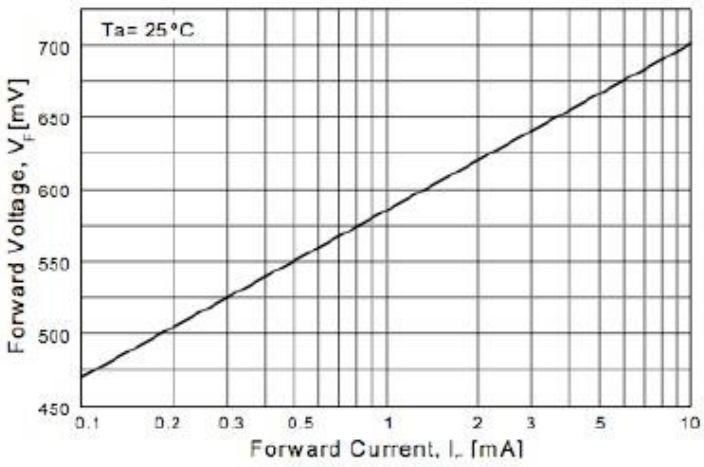


FIG.4-FORWARD VOLTAGE VS FORWARD CURRENT VF-0.1 TO 10 mA

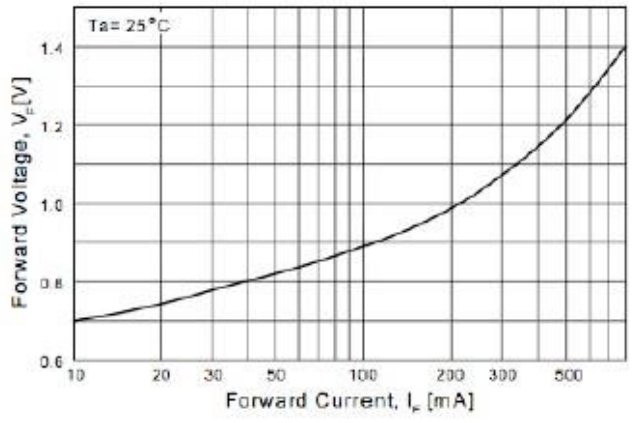


FIG.5- FORWARD VOLTAGE VS FORWARD CURRENT VF-10-800 mA

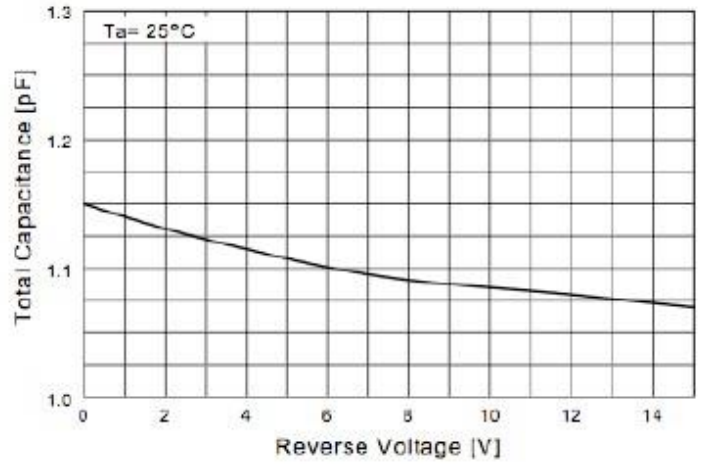


FIG.6-TOTAL CAPACITANCE VS REVERSE VOLTAGE

BAV99

Small Signal Diode

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Bruckewell Technology Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, “Bruckewell”), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Bruckewell makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Bruckewell disclaims

(i) Any and all liability arising out of the application or use of any product.

(ii) Any and all liability, including without limitation special, consequential or incidental damages.

(iii) Any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Bruckewell’s knowledge of typical requirements that are often placed on Bruckewell products in generic applications.

Such statements are not binding statements about the suitability of products for a particular application. It is the customer’s responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and/or specifications may vary in different applications and performance may vary over time.

Product specifications do not expand or otherwise modify Bruckewell’s terms and conditions of purchase, including but not limited to the warranty expressed therein.