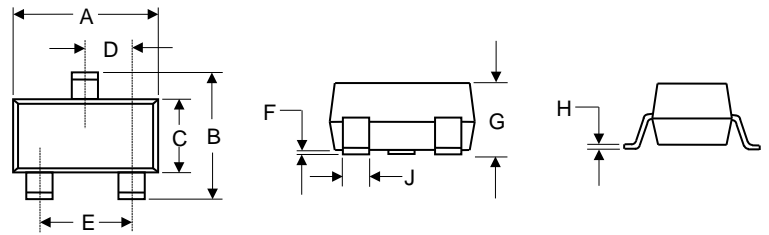


### Features

- \* Fast switching in thick and thin-film circuits diode
- \* Marking Code: A7



RoHS  
COMPLIANT



SOT-23				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.110	0.120	2.80	3.04
B	0.087	0.102	2.20	2.60
C	0.047	0.055	1.20	1.40
D	0.035	0.04	0.89	1.02
E	0.070	0.080	1.78	2.04
F	---	0.004	---	0.10
G	0.035	0.047	0.89	1.20
H	0.003	0.008	0.08	0.19
J	0.015	0.02	0.37	0.51

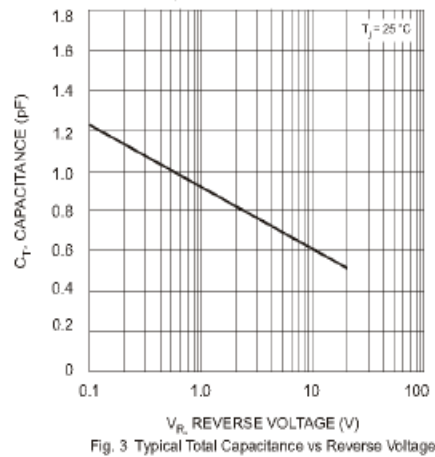
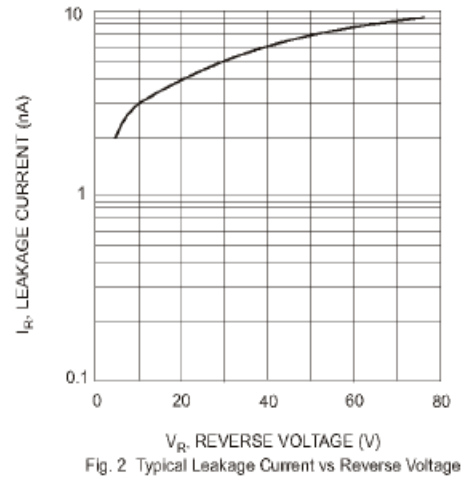
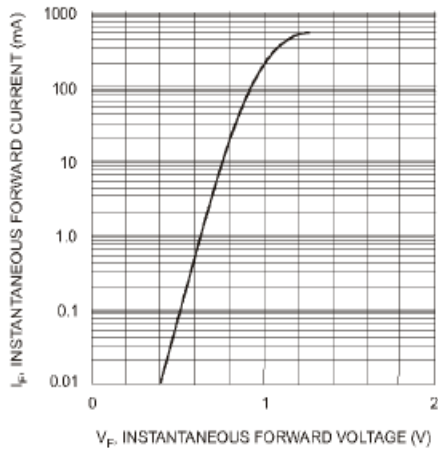
### Maximum Ratings (T<sub>A</sub>=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	85	V
Continuous Reverse Voltage	V <sub>R</sub>	75	V
Continuous Forward Current (Double Diode Loaded)	I <sub>F</sub>	125	mA
Continuous Forward Current (Single Diode Loaded)	I <sub>F</sub>	215	mA
Repetitive Peak Forward Current	I <sub>FRM</sub>	450	mA
Non-repetitive Peak Forward Surge Current at t = 1 s at t = 1 ms at t = 1 μs	I <sub>FSM</sub>	0.5 1 4.5	A
Power Dissipation	P <sub>tot</sub>	350	mW
Junction Temperature	T <sub>j</sub>	150	°C
Storage Temperature Range	T <sub>stg</sub>	- 65 to + 150	°C

### Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

Parameter	Symbol	Max.	Unit
Forward Voltage at I <sub>F</sub> = 1 mA at I <sub>F</sub> = 10 mA at I <sub>F</sub> = 50 mA at I <sub>F</sub> = 150 mA	V <sub>F</sub>	0.715 0.855 1 1.25	V
Reverse Current at V <sub>R</sub> = 25 V at V <sub>R</sub> = 75 V at V <sub>R</sub> = 25 V, T <sub>j</sub> = 150 °C at V <sub>R</sub> = 75 V, T <sub>j</sub> = 150 °C	I <sub>R</sub>	30 1 30 50	nA μA μA μA
Diode Capacitance at V <sub>R</sub> = 0, f = 1 MHz	C <sub>d</sub>	1.5	pF
Reverse Recovery Time at I <sub>F</sub> = I <sub>R</sub> = 10 mA, I <sub>R</sub> = 1 mA, R <sub>L</sub> = 100 Ω	t <sub>rr</sub>	4	ns

### Ratings and Characteristic Curves





# BAV99

## *Silicon Epitaxial Planar Switching Diode*

---

### Ordering Information

---

Part No.	Package	Packing Code	Packing
BAV99	SOT-23	R30	3000pcs/Reel

### Disclaimer

Specifications of the products displayed herein are subject to change without notice. JGD or anyone on its behalf, assumes no responsibility or liability for any errors or inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implied, to any intellectual property rights is granted by this document. Except as provided in JGD's terms and conditions of sale for such products, JGD assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of JGD products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify JGD for any damages resulting from such improper use or sale.