

**GOOD-ARK Electronics** 

# SOT-23 Plastic-Encapsulate Switching Diode

### **Features**

- 6nS; Fast Switching Device (TRR <6nS)
- 225mW; Power Dissipation of 225mW •
- High Stability and High Reliability •
- Low reverse leakage





Marking:

# **Mechanical Data**

- SOT-23 Small Outline Plastic Package
- Epoxy UL: 94V-0
- Mounting Position: Any •

Pin	definition



	BAW56	BAV70	BAV99		
3			1 ∞→→→ 3		
$\wedge \lambda$	2 ⊂ – ◀	20	20		
	Marking:A1	Marking:A4	Marking :A7		
i The	A1	A4	A7		
2					

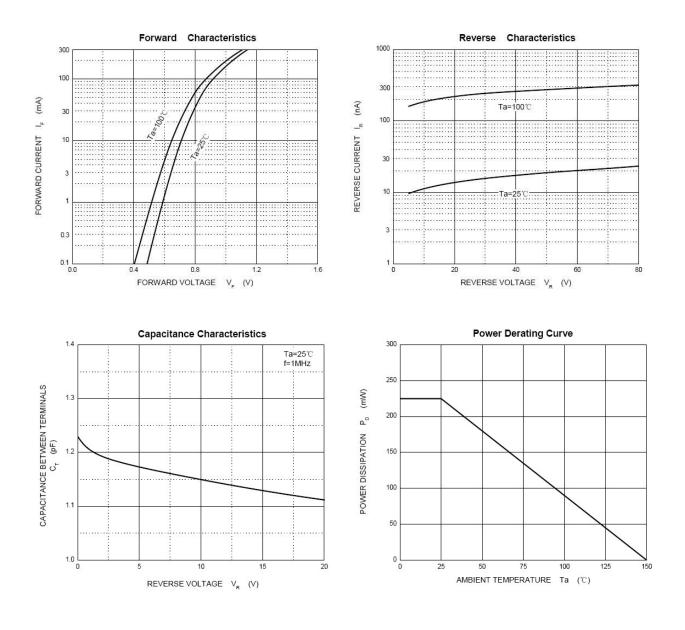
Maximum Ratings & Electrical Characteristics (TA=25°C unless otherwise noted)			
Parameter	Symbol	Value	Unit
Reverse Voltage	V <sub>R</sub>	70	V
Power Dissipation	P <sub>D</sub>	225	mW
Operating junction temperature	TJ	150	°C
Storage temperature range	Ts	-65-+150	°C
Peak Forward Surge Current @tp=1ms; TA=25℃	Іғѕм	2.0	А
Non-repetitive Peak Forward Current	Іғм	400	mA
Average Rectified Current	lo	200	mA
Typical thermal resistance	Reja	500	°C /W

Electrical Specifications(TA=25°C unless otherwise noted)					
		Test Condition	Limits		
Parameter	Symbol		Min	Max	Unit
Reverse Voltage	Vbr	IB=100uA	70		V
Reverse Leakage Current	lr	VR=70V		2.5	uA
	VF	IF=1mA		0.715	V
		IF=10mA		0.855	
Forward Voltage		IF=50mA		1.00	
		IF=150mA		1.25	
Reverse Recovery Time	Trr	IF= IR=10mA,RL=100 Ω IRR=0.1xIR		6	nS
Capacitance	Ст	VR=0V, f=1MHZ		1.5	pF



## **Ratings and Characteristics Curves**

(TA = 25°C unless otherwise noted)

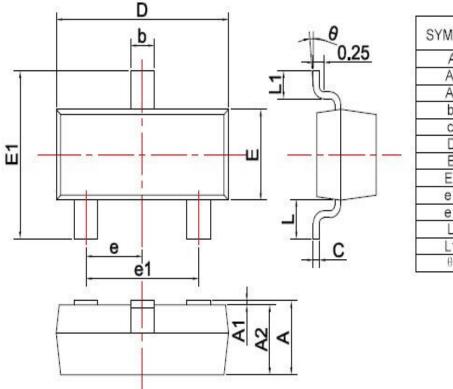




# BAW56-BAV70-BAV99 GOOD-ARK Electronics

# Package Outline Dimensions

millimeters



#### DIMENSIONS SYMBOL MIN. MAX. A 0.900 1.150 A1 0.000 0.100 A2 0.900 1.050 0.300 0.500 b 0.080 0.150 С D 2.800 3.000 Ε 1.200 1.400 2.550 E1 2.250 0.950TYP е 1.800 2.000 e1 0.550REF L L1 0.300 0.500 0° 8° 0

# **Revision History**

Document Version	Date of release	Description of changes
Rev.A	2017.02.17	First issue



# BAW56-BAV70-BAV99

GOOD-ARK Electronics

### **Disclaimers**

These materials are intended as a reference to assist our customers in the selection of the Suzhou Good-Ark product best suited to the customer's application; they do not convey any license under any intellectual property rights, or any other rights, belonging to Suzhou Good-Ark Electronics Co., Ltd.or a third party.

Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, or infringement of any third-party's rights, originating in the use of any product data, diagrams, charts, programs, algorithms, or circuit application examples contained in these materials.

All information contained in these materials, including product data, diagrams, charts, programs and algorithms represents information on products at the time of publication of these materials, and are subject to change by Suzhou Good-Ark Electronics Co., Ltd. without notice due to product improvements or other reasons. It is therefore recommended that customers contact Suzhou Good-Ark Electronics Co., Ltd. for the latest product information before purchasing a product listed herein. The information described here may contain technical inaccuracies or typographical errors. Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, liability, or other loss rising from these inaccuracies or errors. Please also pay attention to information published by Suzhou Good-Ark Electronics Co., Ltd. by various means, including our website home page. (http://www.goodark.com)

When using any or all of the information contained in these materials, including product data, diagrams, charts, programs, and algorithms, Please be sure to evaluate all information as a total system before making a final decision on the applicability of the information and products. Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, liability or other loss resulting from the information contained herein.

The prior written approval of Suzhou Good-Ark Electronics Co., Ltd. is necessary to reprint or reproduce in whole or in part these materials.

Please contact Suzhou Good-Ark Electronics Co., Ltd. or an authorized distributor for further details on these materials or the products contained herein.