

**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	

Epuivalent circuit

	BAW56	BAV70	BAV99
3			
	Marking:A1	Marking:A4	Marking :A7
i		A4	A7
2			

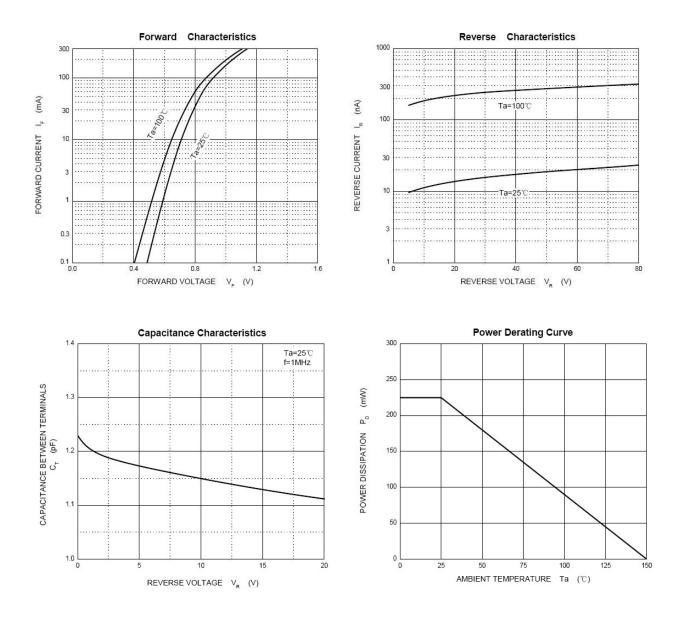
Maximum Ratings & Electrical Characteristics (TA=25°C unless otherwise noted)			
Parameter	Symbol	Value	Unit
Reverse Voltage	VR	70	V
Power Dissipation	P <sub>D</sub>	225	mW
Operating junction temperature	TJ	150	°C
Storage temperature range	Ts	-65-+150	°C
Peak Forward Surge Current @tp=1ms; TA=25℃	IFSM	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
		IF=1mA		0.715	V
		IF=10mA		0.855	
Forward Voltage	VF	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)

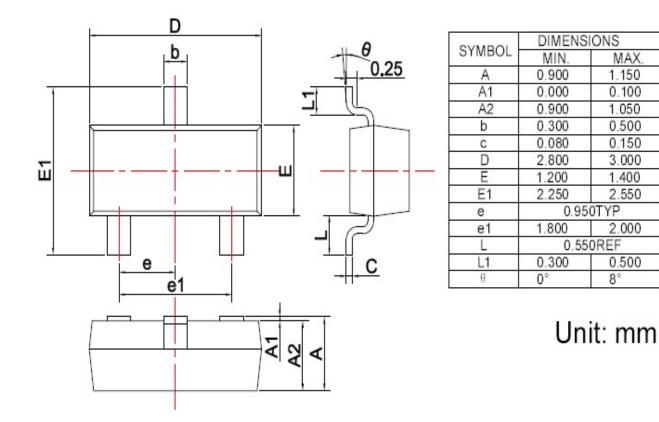




# BAW56-BAV70-BAV99 GOOD-ARK Electronics

## Package Outline Dimensions

in inches (millimeters)



### **Revision History**

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



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