BAW56/BAV70/BAV99



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BAW56/BAV70/BAV99 Plastic-Encapsulate Switching Diode

General description

SOT-23 Plastic-Encapsulate Switching Diode

Features

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

Mechanical Data

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

BAW56	BAV70	BAV99		
		1 ⊶ ▶ → 3		
2⊶	2⊶	2 ∘		
MARKING:A1	MARKING:A4	MARKING:A7		
A1	A4	A7		

Maximum Ratings & Thermal Characteristics (Ratings at 25°C ambient temperature unless otherwise specified.)

Cumphical	Value		
Symbol	value	Unit	
VR	70	V	
Pd	225	mW	
Tj	150	°C	
Ts	-65-+150	°C	
lo	200	mA	
IFM	400	mA	
IFSM	2.0	Α	
Reja	500	°C/W	
	Pd Tj Ts IO IFM IFSM	VR 70 Pd 225 Tj 150 Ts -65-+150 IO 200 IFM 400 IFSM 2.0	

Valid provided that electrodes are kept at ambient temperature.

Electrical Characteristics (TA = 25°C unless otherwise noted)

Symbols	Devenester	Test Condition	Lin	11::4		
	Parameter	lest Condition	Min	Max	Unit	
VRB	Reverse Voltage	IB=100uA	70		V	
IR	Reverse Leakage Current	VR=70V				
		IF=1mA		0.715	v	
VF	Forward Voltage	IF=10mA		0.855		
VF		IF=50mA		1.00		
		IF=150mA		1.25		
TRR	Reverse Recovery Time	IF= IR=10mA,RL=100Ω IRR=0.1xIR			nS	
Ст	Capacitance	VR=0V, f=1MHZ		1.5	pF	

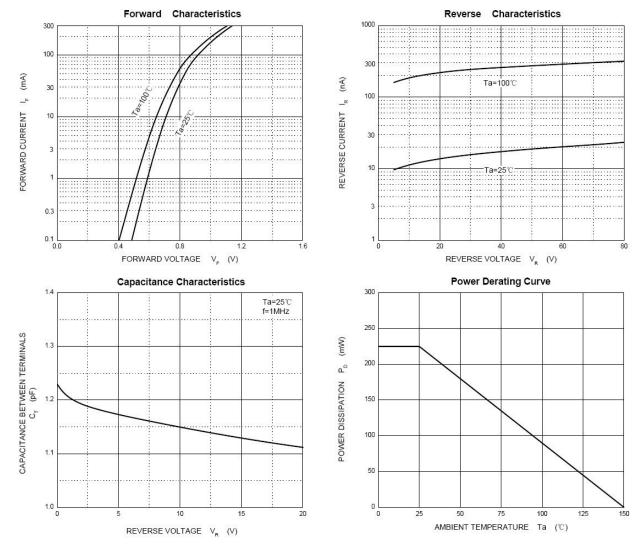
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SOT-23

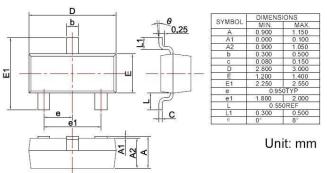
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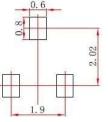
Typical Characteristics







PCB Design(Recommended land dimensions for SOT-23 diode. Electrode patterns for PCBs)

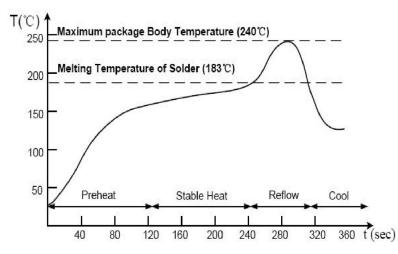


Note: 1.Controlling dimension: in millimeters, 2.General tolerance: ± 0.05mm. 3.The pad layout is for reference purposes only,





Suggested Soldering Temperature Profile

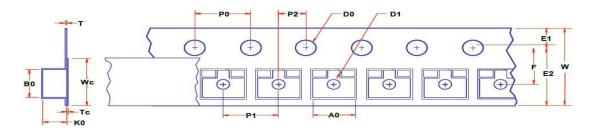


Note

- Recommended reflow methods: IR, vapor phase oven, hot air oven, wave solder.
- ← The device can be exposed to a maximum temperature of 265°C for 10 seconds.
- Devices can be cleaned using standard industry methods and solvents.
- If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.

Package Information

Carrier Dimension(mm)



Dimensions are in millimeter														
Pkg type	A0	BO	w	D0	D1	E1	E2	F	P1	PO	KO	Т	Wc	Tc
SOT23 (8 mm)	3.40 +/-0.10	2.84 +/-0.10	7.95 +/-0.2	1.47 +/-0.05	1.0 +/-0.1	1.75 +/-0.10	6.25 min	3.50 +/-0.05	4.0 +/-0.1	3.99 +/-0.1	1.27 +/-0.10	0.25 +/-0.05	5.3 +/-0.1	0.05 +/-0.02

Package Specifications

Package	Reel Size	Reel DIA. (mm)	Q'TY/Reel (Kpcs)	Box Size (mm)	QTY/Box (Kpcs)	Carton Size (mm)	Q'TY/Carton (Kpcs)	
SOT-23	7'	178	3	180*118*185	30	380*375*210	180	

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