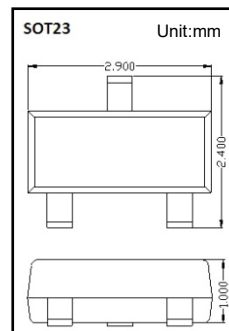


Fast Switching Speed

Operating and storage junction temperature range -65 °C to 150 °C

Small Outline Surface Mount Package RoHS compliant / Green EMC

Epoxy meets UL 94 V-0 flammability rating



Maximum Ratings (T_a = 25 °C)

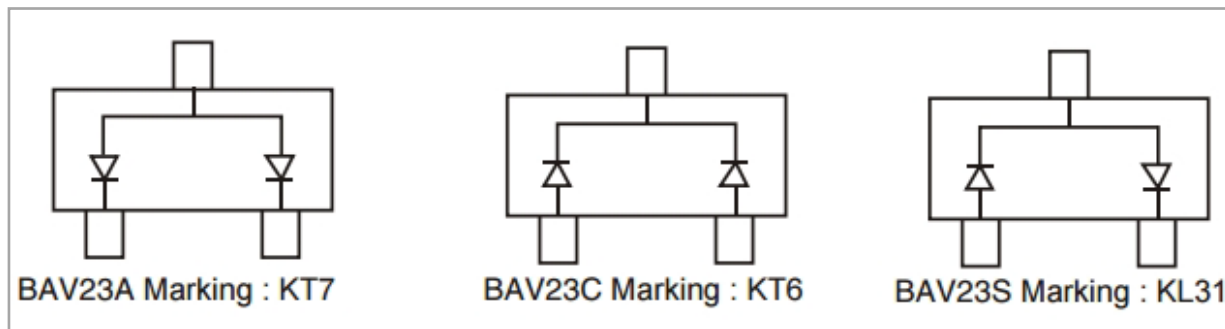
Symbol	Parameter	Value	Units
V _{BR}	Reverse Breakdown Voltage	250	V
V _R	Continuous Reverse Voltage	200	V
V _{R(RMS)}	RMS Reverse Voltage	141	V
I _{FM}	Forward DC Current at Tamb=25°C	225	mA
R _{θJA}	Thermal Resistance Junction to Ambient Air	357	°C/W
P _D	Power Dissipation	350	mW
I _{FSM}	Non-Repetitive Peak Forward Surge Current @ t = 1.0us	9.0	A
	@ t = 100us	3.0	
	@ t = 10ms	1.7	
I _{FRM}	Repetitive Peak Forward Surge Current	625	mA

Electrical Characteristics (T_a = 25 °C)

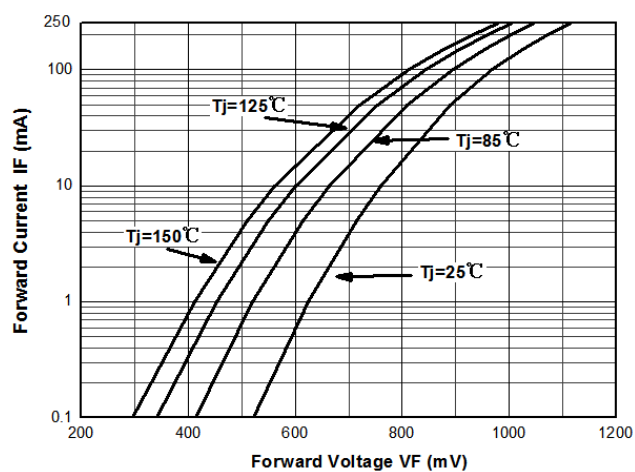
Symbol	Parameter	Test Conditions	Min	Typ	Max	Units
V _F	Forward Voltage	I _F =100mA I _F =200mA			1.00 1.25	V
V _R	Reverse breakdown voltage	I _R =100uA	250			V
I _R	Reverse voltage leakage current	V _R =250V			100	nA
C _J	Typical Junction Capacitance	V _R =0V, f=1.0MHz		5		pF
T _{rr}	Reverse recovery time	I _F =I _R =30mA, I _{rr} =3.0mA RL=100OHMS)			50	nS

Notes:

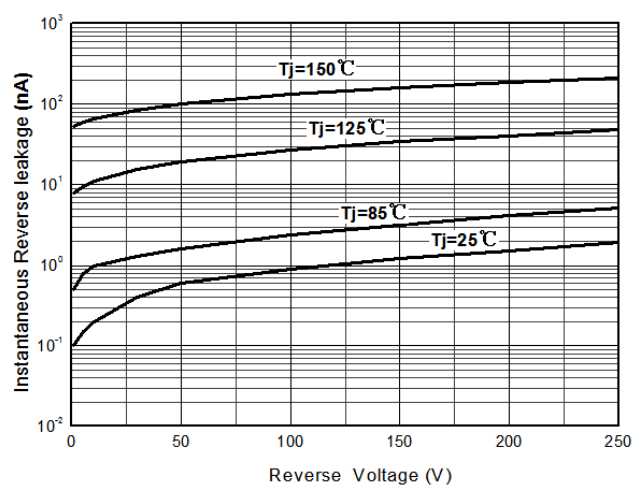
1. Part mounted on FR-4 substrate with pad dimensions 1 inch × 1 inch, 2oz, copper, single-sided, PC board.
2. Short duration pulse test used to minimize self-heating effect.
3. Double Diode Loaded in Parallel. For Single Diode or Double Diode Loaded in Series, the continuous forward current should be reduced by half.



Typical Characteristics



Typical Instantaneous Forward Characteristics



Typical Reverse Leakage Characteristics

Ordering Information

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
BAV23/A/C/S	SOT23	Tape & Reel 3000pcs /7" Reel	8mm	4mm	Conductive	

Package Dimensions

