

BAV23/A/C/S

350mW

Small Signal Diode

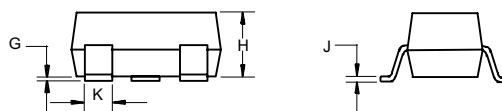
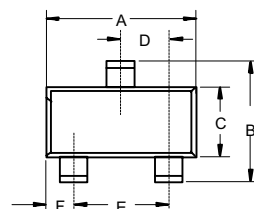
Features

- Fast Switching Speed
- Operating and storage junction temperature range -65°C To 150°C
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)

Maximum Ratings

Symbol	Parameter	Rating	Unit
V _{BR}	Reverse Breakdown Voltage @ I _R =100uA	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 = 1.0μs @ t = 100μs	9.0 3.0	A

SOT-23



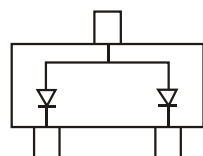
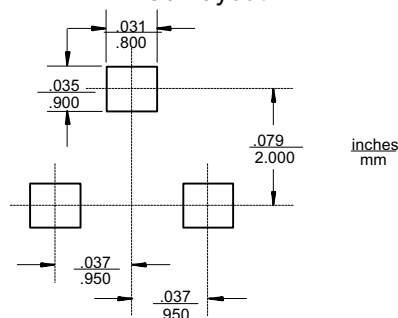
DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.110	.120	2.80	3.04	
B	.083	.098	2.10	2.64	
C	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
E	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
H	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

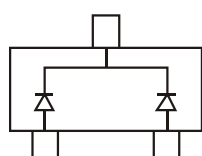
Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
V _F	Forward Voltage (I _F =100mA) (I _F =200mA)	---	---	1.00 1.25	V
I _R	Leakage Current (V _R =250V)	---	---	100	nA
C _{tot}	Capacitance (V _R =0, f=1.0MHz)	---	5	---	pF
t _{rr}	Reverse Recovery Time (I _F =30mA, I _R =30mA) (I _{rr} =3.0mA, R _L =100Ω)	---	---	50	ns

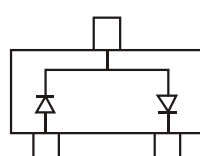
Suggested Solder Pad Layout



BAV23A Marking : KT7



BAV23C Marking : KT6



BAV23S Marking : KL31

Typical Characteristics

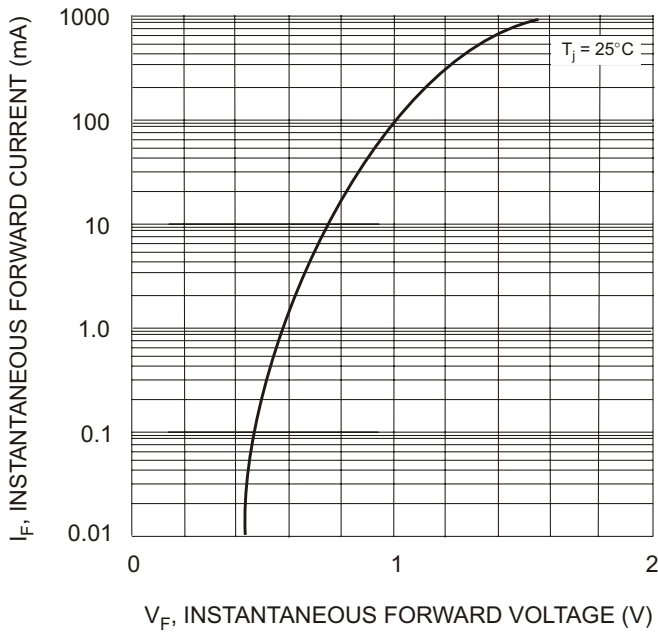


Fig. 1 Forward Characteristics

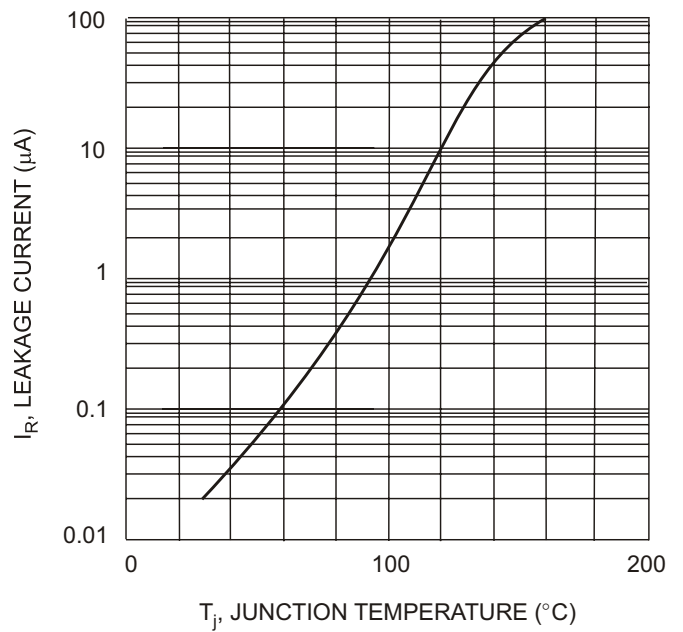


Fig. 2 Leakage Current vs Junction Temperature



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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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