

Features

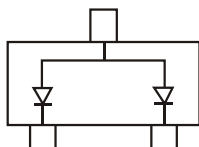
- Fast Switching Speed
- Operating and storage junction temperature range -65°C To 150°C
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
- Halogen free available upon request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

Maximum Ratings

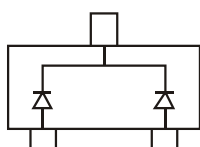
Symbol	Parameter	Rating	Unit
V_{BR}	Reverse Breakdown Voltage @ $I_R=100\mu A$	250	V
V_R	Continuous Reverse Voltage	200	V
$V_{R(RMS)}$	RMS Reverse Voltage	141	V
I_{FM}	Forward DC Current at $T_{amb}=25^\circ C$	225	mA
$R_{\theta JA}$	Thermal Resistance Junction to Ambient Air	357	$^\circ C/W$
P_d	Power Dissipation	350	mW
I_{FSM}	Non-Repetitive Peak Forward Surge Current @ $t = 1.0\mu s$ @ $t = 100\mu s$	9.0 3.0	A

Electrical Characteristics @ 25°C Unless Otherwise Specified

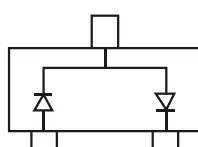
Symbol	Parameter	Min	Typ	Max	Units
V_F	Forward Voltage ($I_F=100mA$) ($I_F=200mA$)	---	---	1.00 1.25	V
I_R	Leakage Current ($V_R=250V$)	---	---	100	nA
C_{tot}	Capacitance ($V_R=0, f=1.0MHz$)	---	5	---	pF
t_{rr}	Reverse Recovery Time ($I_F=30mA, I_R=30mA$) ($I_{RR}=3.0mA, R_f=100\Omega$)	---	---	50	ns



BAV23A Marking : KT7



BAV23C Marking : KT6



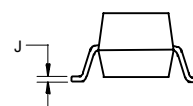
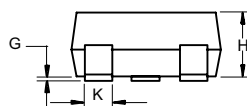
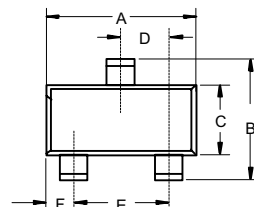
BAV23S Marking : KL31

BAV23/A/C/S

350mW

Small Signal Diode

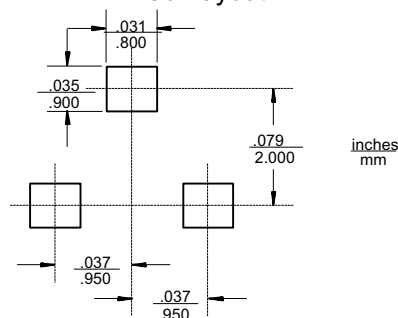
SOT-23



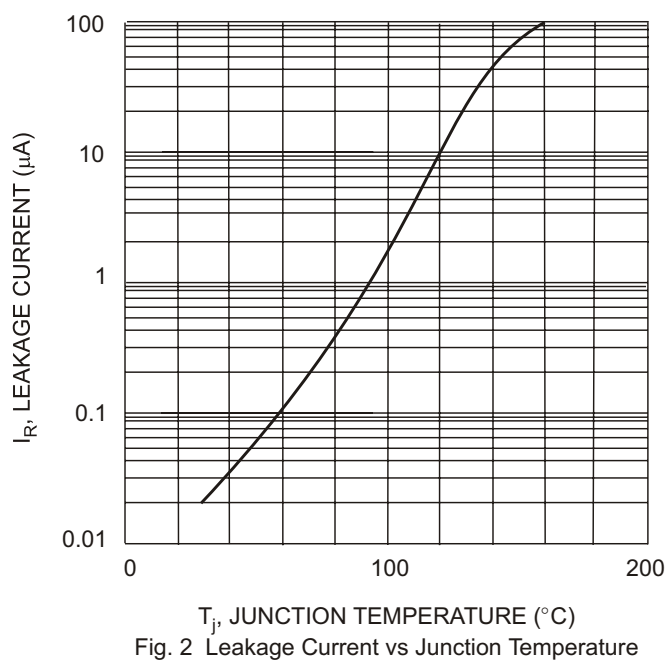
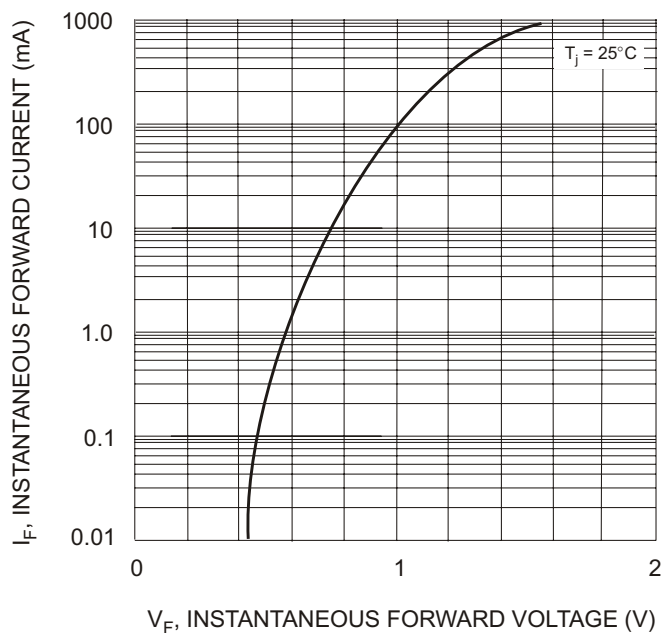
DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.110	.120	2.80	3.04	
B	.083	.104	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	

Suggested Solder Pad Layout



Typical Characteristics



Ordering Information :

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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