



Micro Commercial Components



Micro Commercial Components
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BAV199

Features

- Low Current Leakage
- Forward Current: $I_F=215\text{mA}$
- Small Outline Surface Mount Package
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking: JY
- Lead Free Finish/Rohs Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

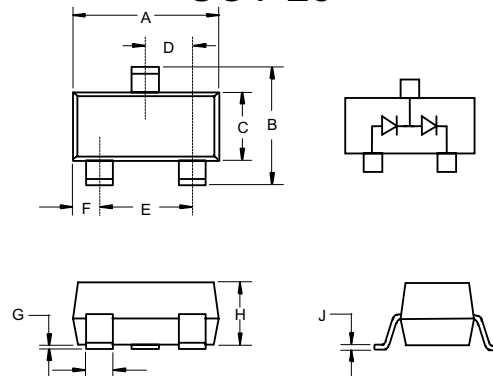
- Operating Temperature Range: -55°C to $+150^\circ\text{C}$
- Storage Temperature Range: -55°C to $+150^\circ\text{C}$

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
$V_{(BR)R}$	Reverse Breakdown Voltage ($I_R=100\mu\text{A}$)	70	---	---	V
V_F	Forward Voltage $I_F=1.0\text{mA}$	---	---	0.90	V
	$I_F=10\text{mA}$	---	---	1.00	
	$I_F=50\text{mA}$	---	---	1.10	
	$I_F=150\text{mA}$	---	---	1.25	
I_R	leakage current ($V_R=75\text{V}$)	---	---	5.0	nA
C_j	Junction Capacitance ($V_R=0$, $f=1.0\text{MHz}$)	---	---	2.0	pF
t_{rr}	Reverse recovery time	---	---	3.0	us

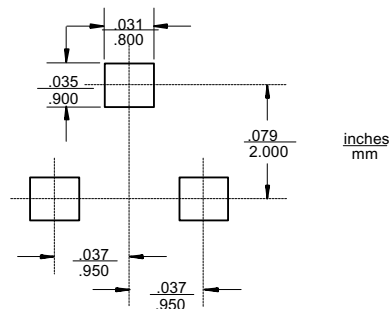
Dual Series Switching Diode

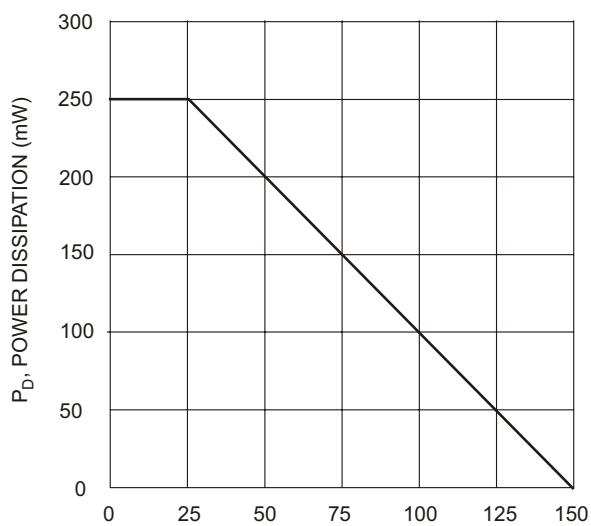
SOT-23



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	

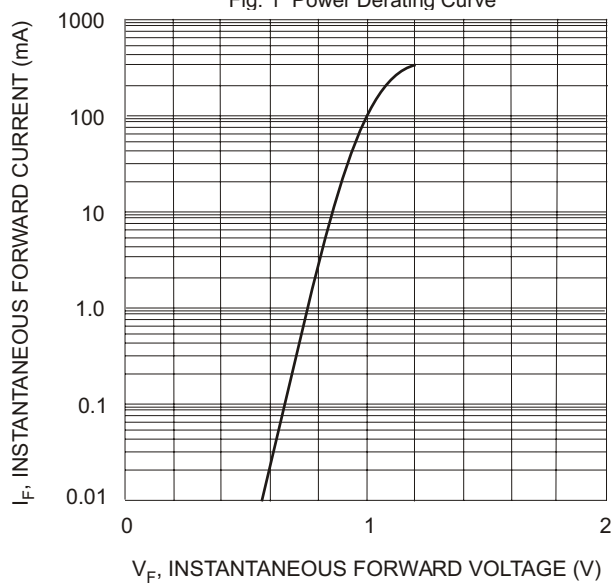
Suggested Solder Pad Layout





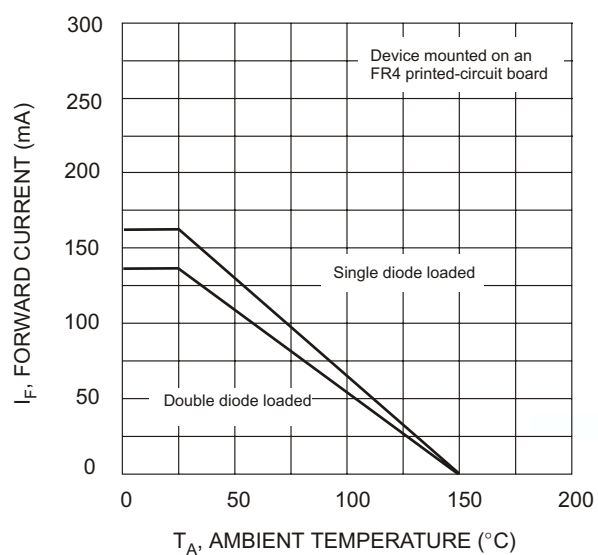
T_A , AMBIENT TEMPERATURE (°C)

Fig. 1 Power Derating Curve



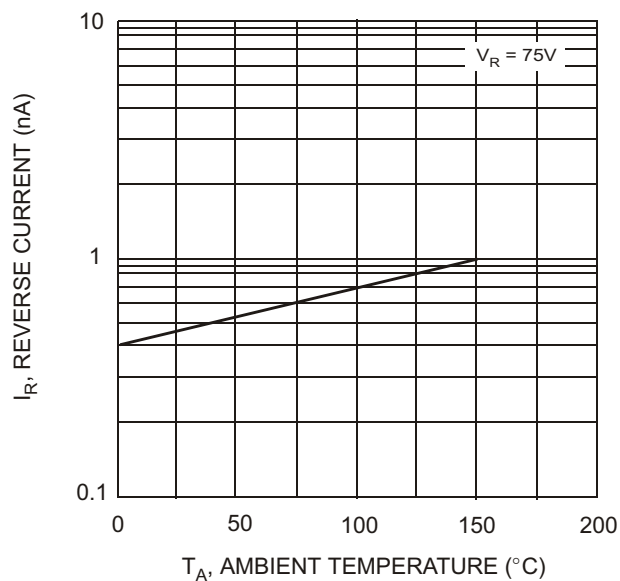
V_F , INSTANTANEOUS FORWARD VOLTAGE (V)

Fig. 3 Typical Forward Characteristics



T_A , AMBIENT TEMPERATURE (°C)

Fig. 2 Current Derating Curve



T_A , AMBIENT TEMPERATURE (°C)

Fig. 4 Typical Reverse 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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