



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

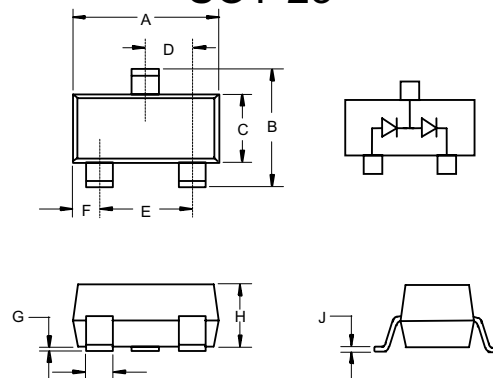
- Operating Temperature Range:  $-55^\circ\text{C}$  to  $+150^\circ\text{C}$
- Storage Temperature Range:  $-55^\circ\text{C}$  to  $+150^\circ\text{C}$

### Electrical Characteristics @ $25^\circ\text{C}$ 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

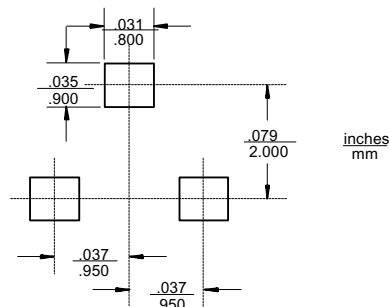
## Dual Series Switching Diode

### 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



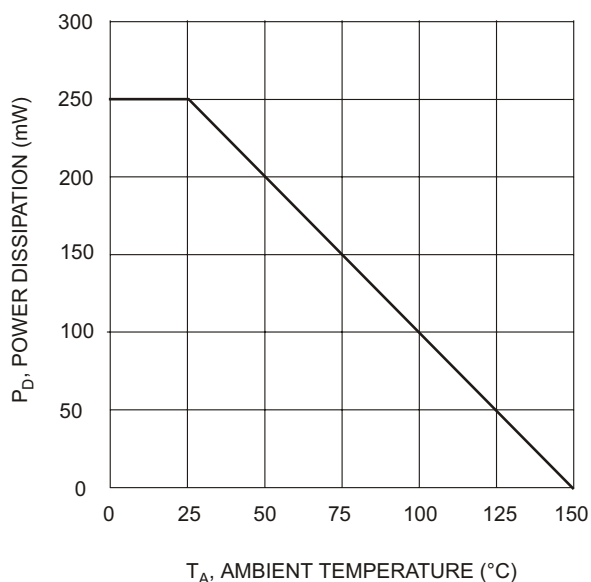


Fig. 1 Power Derating Curve

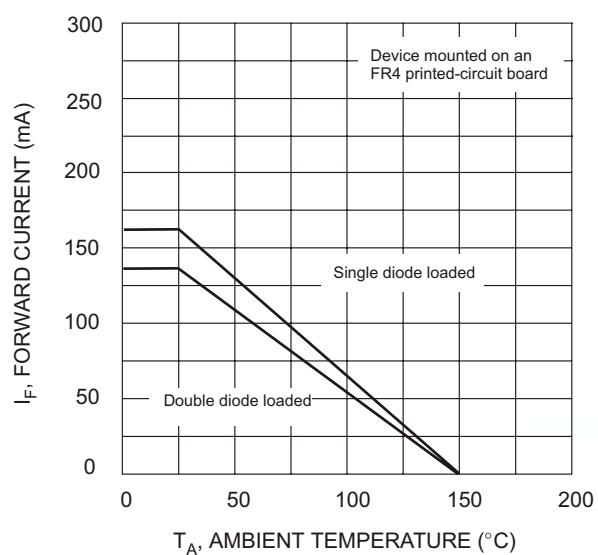


Fig. 2 Current Derating Curve

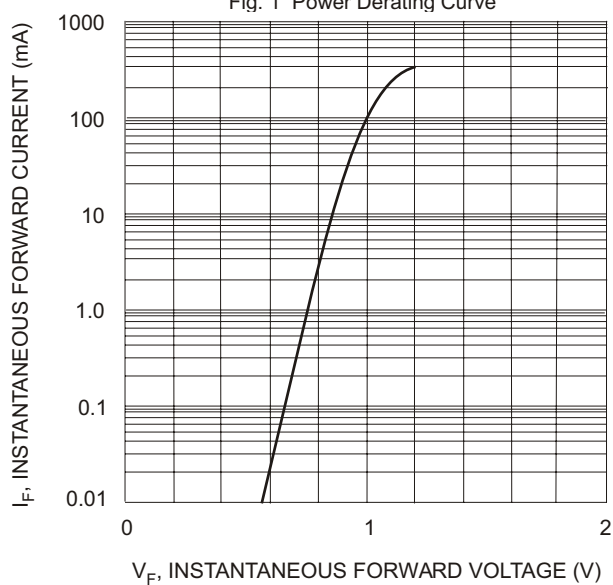


Fig. 3 Typical Forward Characteristics

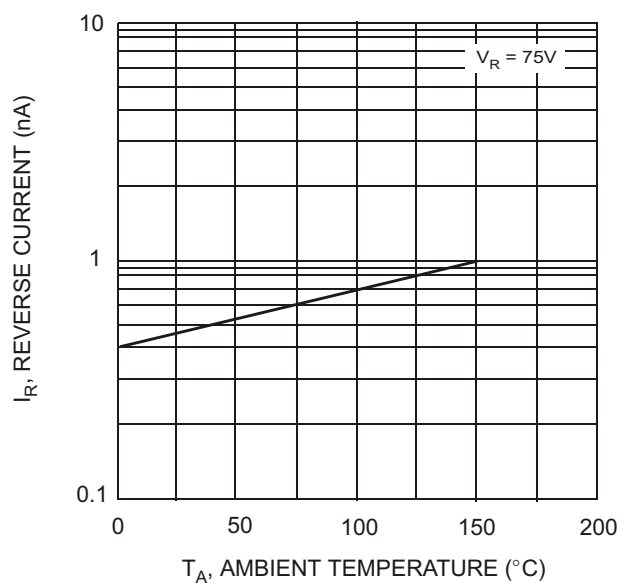


Fig. 4 Typical Reverse Characteristics

## 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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# AMEYA360

## Components Supply Platform

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