



Micro Commercial Components



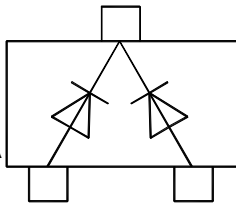
Micro Commercial Components  
20736 Marilla Street Chatsworth  
CA 91311  
Phone: (818) 701-4933  
Fax: (818) 701-4939

**BAV70WT**

## Features

- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/Rohs Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Power dissipation: 200mW ( $T_{amb}=25^{\circ}C$ )
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- For Surface Mount Application

Marking : KJA



## Maximum Ratings

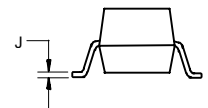
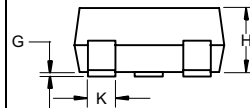
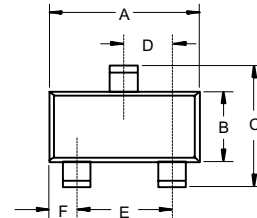
- Operating Temperature:  $-55^{\circ}C$  to  $+150^{\circ}C$
- Storage Temperature:  $-55^{\circ}C$  to  $+150^{\circ}C$

## Electrical Characteristics @ $25^{\circ}C$ Unless Otherwise Specified

|                                                         |           |                                  |                                                                          |
|---------------------------------------------------------|-----------|----------------------------------|--------------------------------------------------------------------------|
| Reverse Voltage                                         | $V_R$     | 75V                              | $I_R=100 \mu A$                                                          |
| Peak Forward Current                                    | $I_F$     | 150mA                            |                                                                          |
| Non-Repetitive Peak Forward Surge Current               | $I_{FSM}$ | 2A<br>1A                         | @1us<br>@1s                                                              |
| Maximum Instantaneous Forward Voltage                   | $V_F$     | 0.715V<br>0.855<br>1.0V<br>1.25V | $I_{FM}=1mA$ ;<br>$I_{FM}=10mA$ ;<br>$I_{FM}=50mA$ ;<br>$I_{FM}=150mA$ ; |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | $I_R$     | 2.5 $\mu A$                      | $V_R=75Volts$                                                            |
| Diode Capacitance                                       | $C_D$     | 2pF                              | Measured at 1.0MHz,<br>$V_R=0V$                                          |
| Reverse Recovery Time                                   | $T_{rr}$  | 4ns                              | $I_F=I_R=10mA$<br>$I_{rr}=0.1I_R$<br>$R_L=100 \Omega$                    |

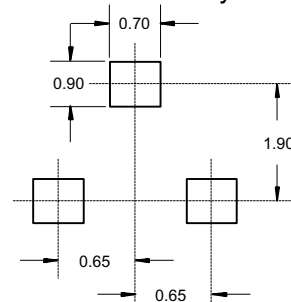
## 200mW Switching Diode

### SOT-323



| DIM | INCHES       |      | MM          |      | NOTE |
|-----|--------------|------|-------------|------|------|
|     | MIN          | MAX  | MIN         | MAX  |      |
| A   | .071         | .087 | 1.80        | 2.20 |      |
| B   | .045         | .053 | 1.15        | 1.35 |      |
| C   | .083         | .096 | 2.10        | 2.45 |      |
| D   | .026 Nominal |      | 0.65Nominal |      |      |
| E   | .047         | .055 | 1.20        | 1.40 |      |
| F   | .012         | .016 | .30         | .40  |      |
| G   | .000         | .004 | .000        | .100 |      |
| H   | .035         | .039 | .90         | 1.00 |      |
| J   | .004         | .010 | .100        | .250 |      |
| K   | .006         | .016 | .15         | .40  |      |

### Suggested Solder Pad Layout



## Ordering Information :

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

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

### \*\*\*IMPORTANT NOTICE\*\*\*

**Micro Commercial Components Corp.** reserves the right to make changes without further notice to any product herein to make corrections, modifications , enhancements , improvements , or other changes . **Micro Commercial Components Corp .** does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights ,nor the rights of others . The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp .** and all the companies whose products are represented on our website, harmless against all damages.

### \*\*\*LIFE SUPPORT\*\*\*

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

### \*\*\*CUSTOMER AWARENESS\*\*\*

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.