

**M.C.C.**

Micro Commercial Components



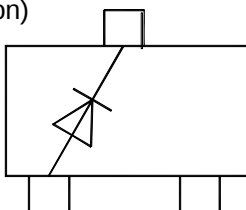
Micro Commercial Components  
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## BAS16WT MMBD4148WT

### Features

- Power dissipation: 200mW ( $T_{amb}=25^{\circ}C$ )
- Collector current: 150mA
- Lead Free Finish/Rohs Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

Marking: A2/A3



### Maximum Ratings

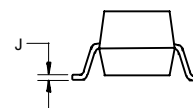
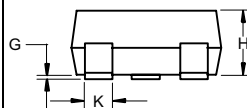
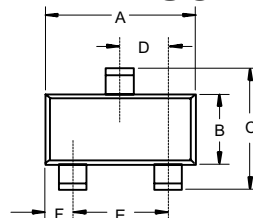
- Operating Temperature:  $-55^{\circ}C$  to  $+150^{\circ}C$
- Storage Temperature:  $-55^{\circ}C$  to  $+150^{\circ}C$
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

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

|                                                         |          |                                  |                                                                          |
|---------------------------------------------------------|----------|----------------------------------|--------------------------------------------------------------------------|
| Reverse Voltage                                         | $V_R$    | 75V                              | $I_R=100\mu A$                                                           |
| Peak Forward Current                                    | $I_F$    | 150mA                            |                                                                          |
| 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 | $I_R$    | 1.0 $\mu A$                      | $V_R=75Volts$                                                            |
| 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>$I_{rr}=0.1I_R$                                        |

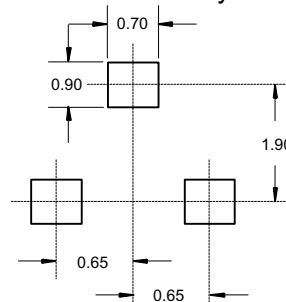
### 200mW Switching Diode

#### 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   | .079         | .087 | 2.00         | 2.20 |      |
| D   | .026 Nominal |      | 0.65 Nominal |      |      |
| 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   | .012         | .016 | .30          | .40  |      |

#### Suggested Solder Pad Layout



Ordering Information :

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

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