

# BAS16WT

## Mechanical Data

✕ Package: SOT-323

✕ Terminals: Tin plated leads, solderable per  
J-STD-002 and JESD22-B102

✕ Marking: A2

## Maximum Ratings (Ta=25 Unless otherwise specified)

| Item                                | Symbol    | Unit | Value |
|-------------------------------------|-----------|------|-------|
| Non-Repetitive Peak Reverse Voltage | $V_{RM}$  | V    | 100   |
| Reverse Voltage                     | $V_R$     | V    | 100   |
| Peak Forward Current                | $I_{FAV}$ | mA   | 150   |

Thermal Resistance from Junction to Ambient  $R_{\theta JA}$

|  |  |  |             |
|--|--|--|-------------|
|  |  |  | -55 to +150 |
|--|--|--|-------------|

## Electrical Characteristics (Ta=25 unless otherwise specified)

| Item                                  |  |            |         |                |       |
|---------------------------------------|--|------------|---------|----------------|-------|
| Reverse Leakage Current               |  | $I_{RSTG}$ | V       | $I_R=100\mu A$ | 100   |
| Maximum Instantaneous Forward Voltage |  | $V_F$      | V       | $I_F=1mA$      | 0.715 |
|                                       |  |            |         | $I_F=10mA$     | 0.855 |
|                                       |  |            |         | $I_F=50mA$     | 1.0   |
|                                       |  |            |         | $I_F=150mA$    | 1.25  |
| Maximum DC Reverse Current            |  | $I_R$      | $\mu A$ | $V_R \leq$     |       |

|  |          |    |                                               |   |
|--|----------|----|-----------------------------------------------|---|
|  | $t_{rr}$ | ns | $I_F=I_R=10mA, I_R \neq 0, I_F \leq 100\mu A$ | 4 |
|--|----------|----|-----------------------------------------------|---|

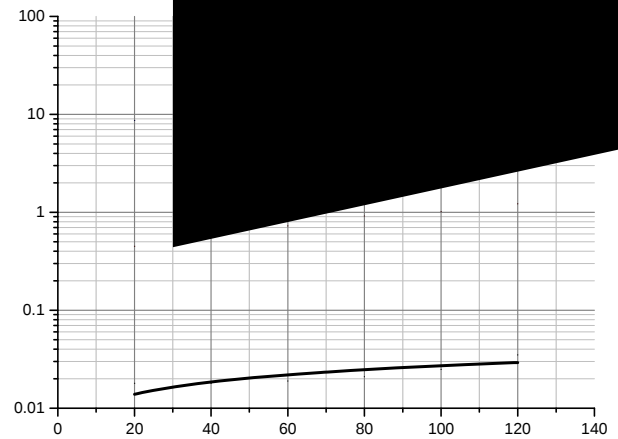


## BAS16WT

### Ω Ordering Information (Example)

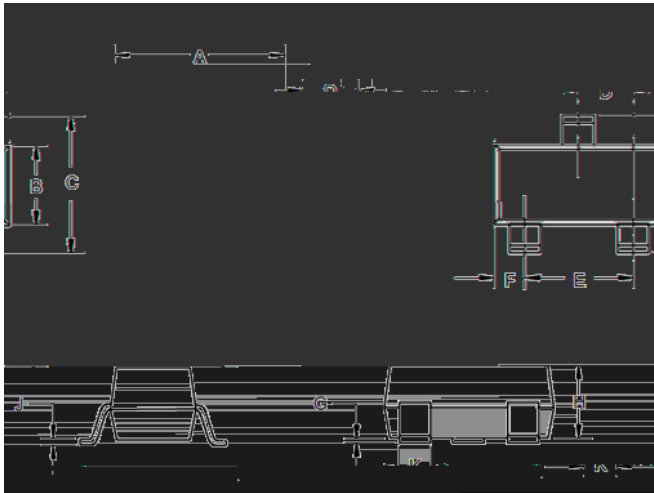
| PREFERED P/N | PACKING CODE | UNIT WEIGHT(g)    | MINIMUM PACKAGE(pcs) | INNER BOX QUANTITY(pcs) |
|--------------|--------------|-------------------|----------------------|-------------------------|
| BAS16WT      | F2           | Approximate 0.005 | 3000                 | 30000                   |

### Ω Characteristics (Typical)



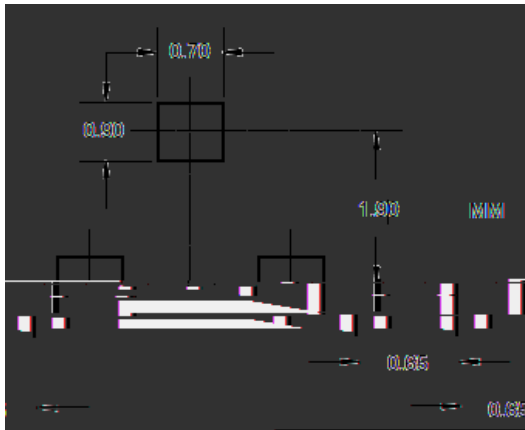


## Ω SOT-323 Package Outline Dimensions



| DIMENSIONS |              |      |              |      |      |
|------------|--------------|------|--------------|------|------|
| DIM        | INCHES       |      | MM           |      | NOTE |
|            | MIN          | MAX  | MIN          | MAX  |      |
| A          | .074         | .087 | 1.88         | 2.20 |      |
| B          | .135         | .145 | 3.43         | 3.68 |      |
| C          | .135         | .145 | 3.43         | 3.68 |      |
| D          | .026 Nominal |      | .665 Nominal |      |      |
| E          | .047         | .055 | 1.20         | 1.40 |      |
| F          | .047         | .055 | 1.20         | 1.40 |      |
| G          | .047         | .055 | 1.20         | 1.40 |      |
| H          | .047         | .055 | 1.20         | 1.40 |      |
| I          | .047         | .055 | 1.20         | 1.40 |      |
| J          | .047         | .055 | 1.20         | 1.40 |      |
| K          | .047         | .055 | 1.20         | 1.40 |      |

## Ω SOT-323 Suggested Pad Layout





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