



# BAS40TW/DW-04/ DW-05 /DW-06 /BRW

## Features

- Fast Switching
- Low Forward Voltage Drop
- Low Power Dissipation
- Ultra-Small Surface Mount Package
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

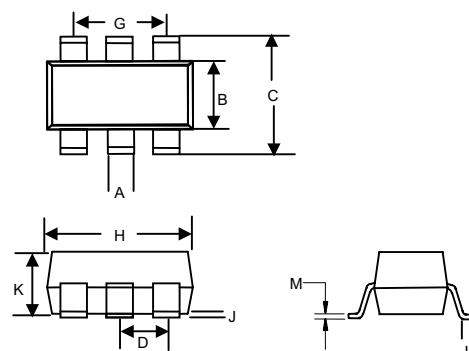
**200mW**

## SCHOTTKY BARRIER Diode

**SOT-363**

## Maximum Ratings

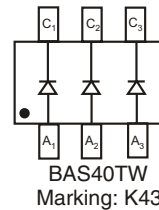
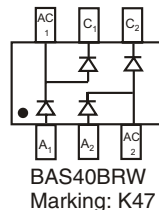
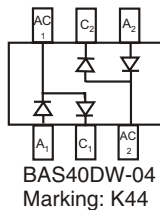
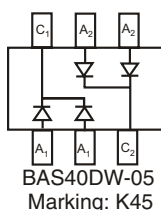
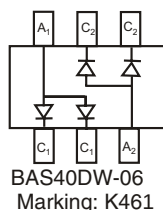
| Symbol                          | Rating                                                                                 | Rating      | Unit          |
|---------------------------------|----------------------------------------------------------------------------------------|-------------|---------------|
| $V_{RRM}$<br>$V_{RWM}$<br>$V_R$ | Peak Repetitive Reverse Voltage<br>Working Peak Reverse Voltage<br>DC Blocking Voltage | 40          | V             |
| $I_O$                           | Average Rectified Output Current                                                       | 200         | mA            |
| $R_{\theta JA}$                 | Thermal Resistance Junction to Ambient                                                 | 625         | $^{\circ}C/W$ |
| $P_D$                           | Power dissipation                                                                      | 200         | mW            |
| $T_J$                           | Junction Temperature                                                                   | -55 to +125 | $^{\circ}C$   |
| $T_{STG}$                       | Storage Temperature                                                                    | -65 to +125 | $^{\circ}C$   |



## Electrical Characteristics @ 25°C Unless Otherwise Specified

| Symbol     | Parameter                       | Min | Max           | Test Conditions                                    |
|------------|---------------------------------|-----|---------------|----------------------------------------------------|
| $V_{(BR)}$ | Reverse breakdown voltage       | 40V | -----         | $I_R = 10\mu A$                                    |
| $I_R$      | Reverse Voltage Leakage Current | --- | 200nA         | $V_R = 30V$                                        |
| $V_F$      | Forward Voltage                 | --- | 0.38V<br>1.0V | $I_F = 1mA$<br>$I_F = 40mA$                        |
| $C_T$      | Total Capacitance               | --- | 5pF           | $V_R = 0V, f = 1MHz$                               |
| $t_{rr}$   | Reverse Recovery Time           | --- | 5.0ns         | $I_F = 10mA, I_R = I_F = 1mA$<br>$R_L = 100\Omega$ |

| DIM | INCHES |      | MM          |      | NOTE |
|-----|--------|------|-------------|------|------|
|     | MIN    | MAX  | MIN         | MAX  |      |
| A   | .006   | .014 | 0.15        | 0.35 |      |
| B   | .045   | .053 | 1.15        | 1.35 |      |
| C   | .085   | .096 | 2.15        | 2.45 |      |
| D   | .026   |      | 0.65Nominal |      |      |
| G   | .047   | .055 | 1.20        | 1.40 |      |
| H   | .071   | .087 | 1.80        | 2.20 |      |
| J   | ---    | .004 | ---         | 0.10 |      |
| K   | .035   | .043 | 0.90        | 1.10 |      |
| L   | .010   | .018 | 0.26        | 0.46 |      |
| M   | .003   | .006 | 0.08        | 0.15 |      |



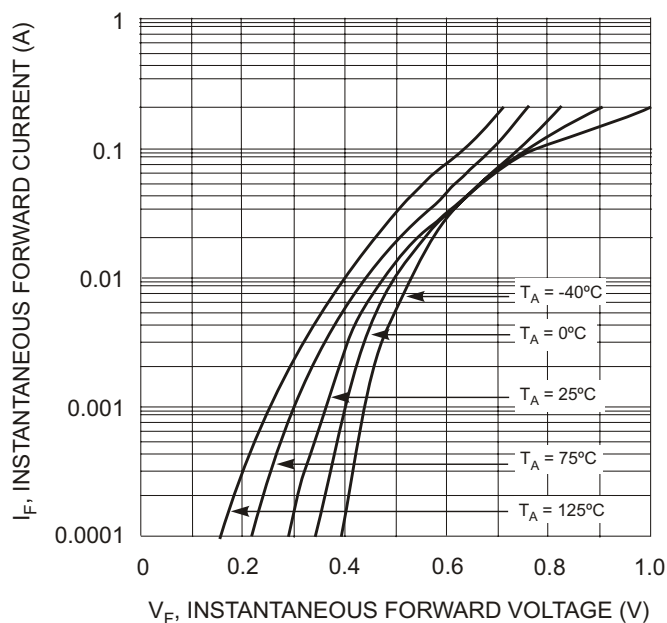


Fig. 1 Typical Forward Voltage

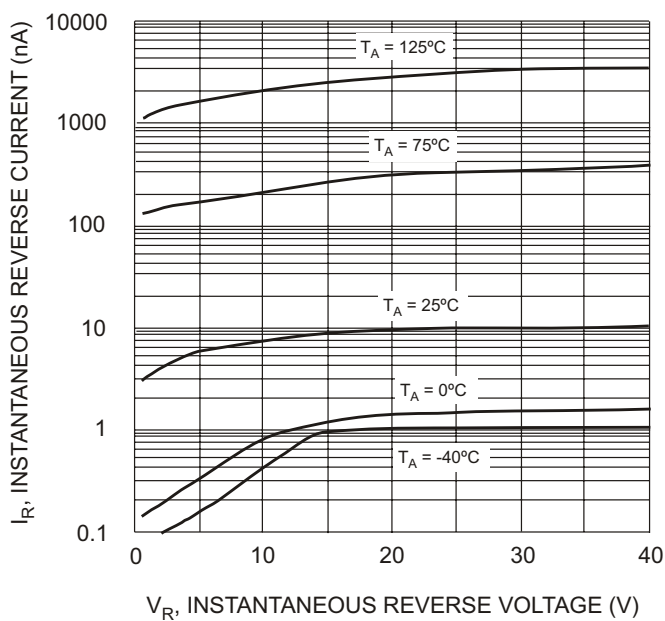


Fig. 2 Typical Reverse Characteristics

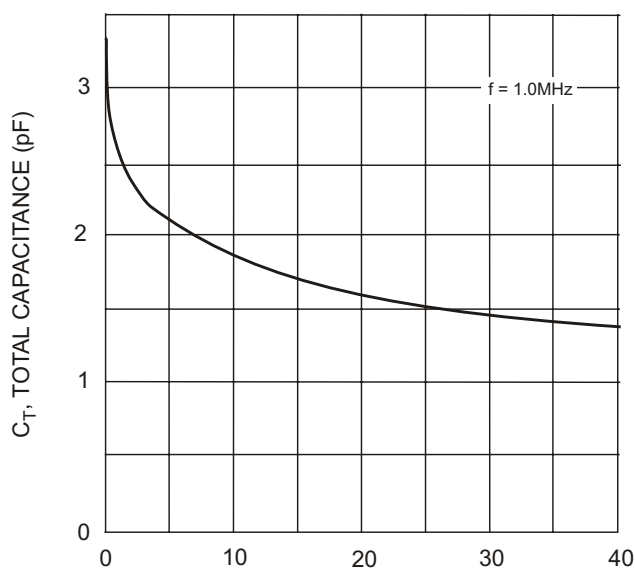


Fig. 3 Typical Capacitance

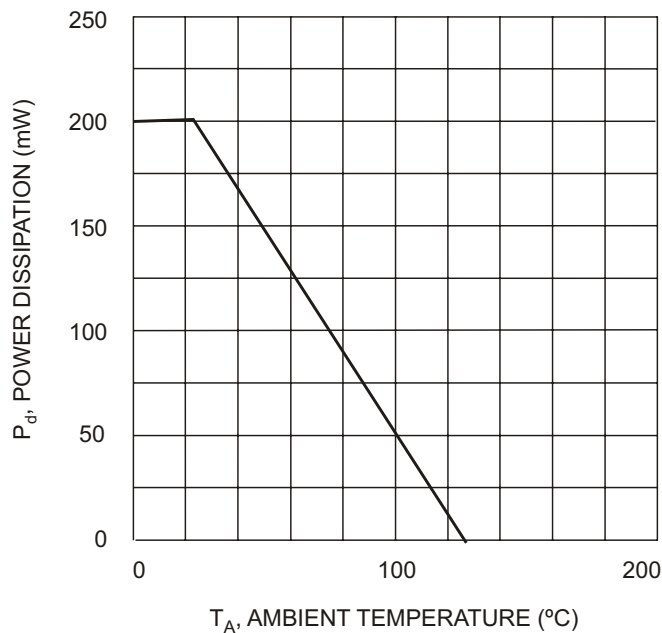


Fig. 4 Power Derating Curve, Total Package

Ordering Information :

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

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