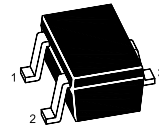


BAS70W / -04W / -05W / -06W

SURFACE MOUNT SCHOTTKY BARRIER DIODE

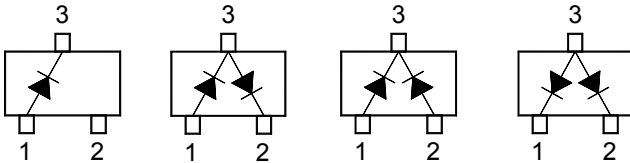
Features

- Low Turn-on Voltage
- Fast Switching



SOT-323 Plastic Package

BAS70W BAS70-04W BAS70-05W BAS70-06W



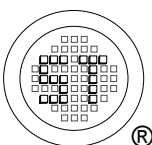
BAS70W Marking Code: **73**
 BAS70-04W Marking Code: **74**
 BAS70-05W Marking Code: **75**
 BAS70-06W Marking Code: **76**

Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

| Parameter | Symbol | Value | Unit |
|---|-----------|---------------|------------------|
| Repetitive Peak Reverse Voltage | V_{RRM} | 70 | V |
| DC Blocking Voltage | V_R | 70 | V |
| Forward Continuous Current | I_F | 70 | mA |
| Peak Forward Surge Current (at $t_p \leq 8.3\text{ ms}$) | I_{FSM} | 100 | mA |
| Power Dissipation | P_d | 200 | mW |
| Junction Temperature | T_J | 150 | $^\circ\text{C}$ |
| Storage Temperature Range | T_{Stg} | - 65 to + 150 | $^\circ\text{C}$ |

Characteristics at $T_a = 25\text{ }^\circ\text{C}$

| Parameter | Symbol | Min. | Max. | Unit |
|---|-------------|------|------|------|
| Forward Voltage at $I_F = 1\text{ mA}$ at $I_F = 15\text{ mA}$ | V_F | - | 0.41 | V |
| | V_F | - | 1 | V |
| Reverse Breakdown Voltage at $I_R = 10\text{ }\mu\text{A}$ | $V_{(BR)R}$ | 70 | - | V |
| Reverse Leakage Current at $V_R = 50\text{ V}$ | I_R | - | 100 | nA |
| Junction Capacitance at $V_R = 0\text{ V}$, $f = 1\text{ MHz}$ | C_J | - | 2 | pF |
| Reverse Recovery Time at $I_F = I_R = 10\text{ mA}$, $I_{rr} = 0.1 I_R$ | t_{rr} | - | 5 | ns |



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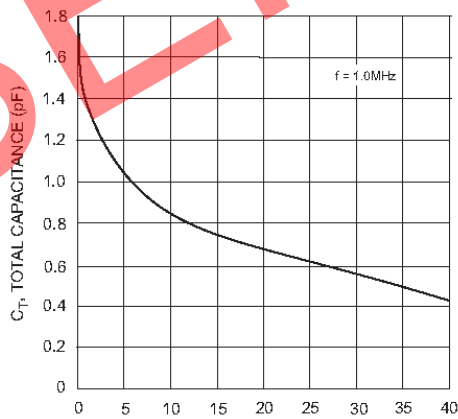
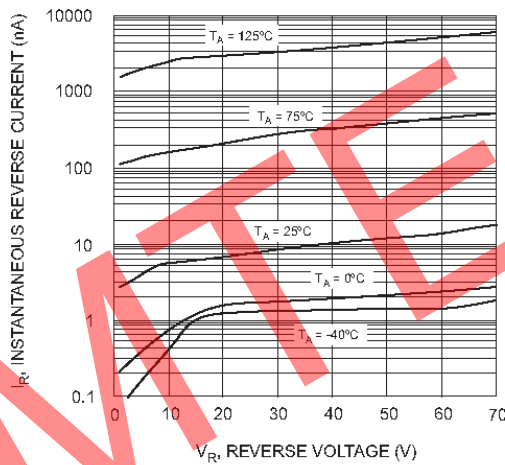
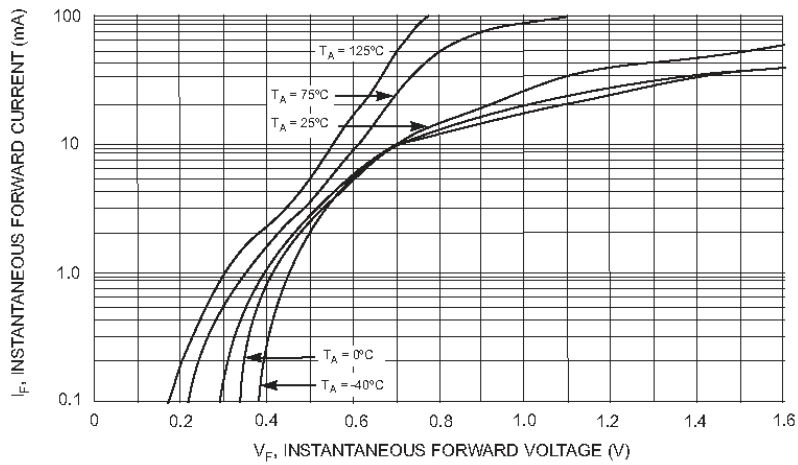


Fig. 3 Typical Capacitance

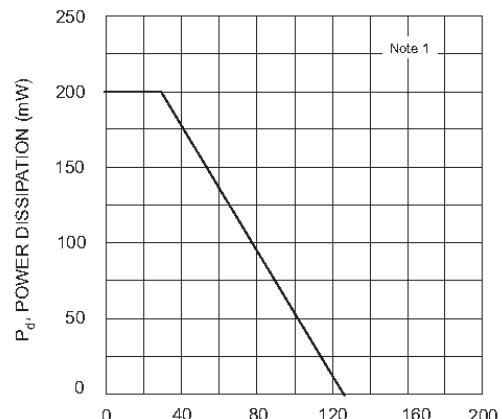
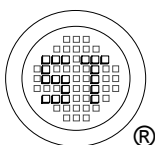


Fig. 4 Power Derating Curve, Total Package



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