multicomp

Surface Mount Barrier Diode multicomp

Features:

- Low turn-on voltage
- High breakdown voltage
- Guard ring protected
- Low capacitance •
- Very small SMD package

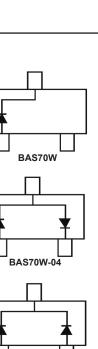
Applications:

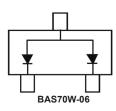
· High speed switching applications

Maximum Rating @ Ta=25°C (unless otherwise specified):

| Characteristic | Symbol | Value | Unit |
|---|--|-------------|------|
| Peak repetitive reverse voltage Working peak reverse voltage DC reverse voltage | V _{RRM} V _{RWM} V _R | 70 | V |
| Forward continuous current | I _F | 70 | mA |
| Non-repetitive peak forward surge current @ $t_p = 1 \mu s$ | I _{FS} | 100 | mA |
| Power dissipation | P _D | 200 | mW |
| Junction temperature | TJ | 150 | С° |
| Storage temperature range | T _{STG} | -65 to +150 | °C |

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BAS70W-05



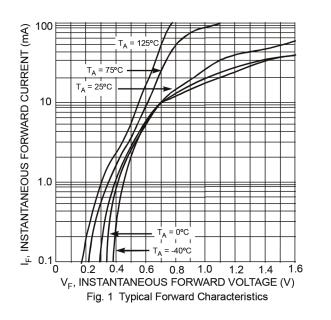


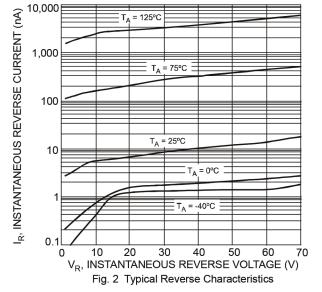
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| Characteristic | Symbol | Min. | Max. | Unit | Test Condition |
|---------------------------|--------------------|------|--------------|------|---|
| Reverse breakdown voltage | V _{(BR)R} | 70 | - | V | I _R = 10A |
| Forward voltage | V _F | - | 410 1,000 | mV | t _P <300µs, I _F =1mA t _P <300µs, I _F =15mA |
| Reverse leakage current | I _R | - | 100 | nA | t _P <300μs, V _R =50V |
| Junction capacitance | CJ | - | 2 | pF | V _R =0V, f=1MHz |
| Reverse recovery time | t _{rr} | - | 5 | ns | $I_F = I_R = 10 \text{mA}$ $R_L = 100 \Omega$ |

Electrical Characteristics @ Ta=25°C (unless otherwise specified):

Typical Characteristics @ Ta=25°C (unless otherwise specified):



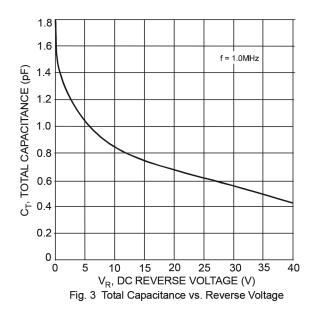


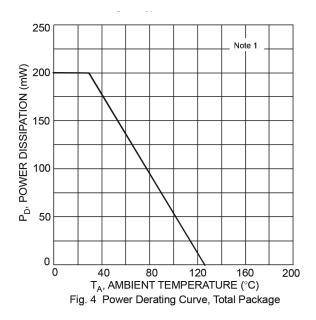
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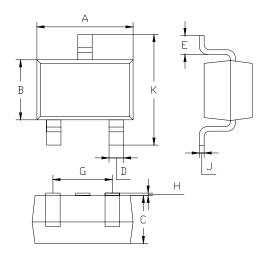
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Typical Characteristics @ Ta=25°C (unless otherwise specified):





Package Outline Plastic Surface Mounted Package



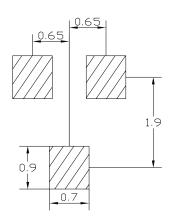
| SOT-323 | | | | | |
|---------|-------------|------|--|--|--|
| Dim | Min | Мах | | | |
| А | 1.8 | 2.2 | | | |
| В | 1.15 | 1.35 | | | |
| С | 1 Typical | | | | |
| D | 0.15 | 0.35 | | | |
| E | 0.25 | 0.4 | | | |
| G | 1.2 | 1.4 | | | |
| Н | 0.02 | 0.1 | | | |
| J | 0.1 Typical | | | | |
| К | 2.1 | 2.3 | | | |

Dimensions : Millimetres

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Soldering Footprint



Dimensions : Millimetres

Part Number Table

| Description | Part Number | |
|-----------------------------------|-------------|--|
| Diode, Schottky, 70V, SOT323 | BAS70W | |
| Diode, Dual Schottky, 70V, SOT323 | BAS70W-04 | |
| | BAS70W-05 | |
| | BAS70W-06 | |

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