

BAS16WX

High Speed Switching Diode 350mW

Features

- High Conductance
- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- Lead Free Finish/RoHS Compliant("P" Suffix designates RoHS Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"

Mechanical Data

- Marking: A6/T4
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Polarity: Indicated by Cathode Band

Maximum Ratings @ 25°C Unless Otherwise Specified

| | | | |
|---------------------------------------|----------------|-------------|-----|
| Non-Repetitive Peak Reverse Volt. | V_{RM} | 85 | V |
| Peak Repetitive Reverse Voltage | V_{RRM} | 75 | V |
| Working Peak Reverse Voltage | V_{RWM} | | |
| DC Blocking Voltage | V_R | | |
| RMS Reverse Voltage | $V_{R(RMS)}$ | 53 | V |
| Forward Continuous Current(Note1) | I_{FM} | 200 | mA |
| Average Rectified Output Current | I_o | 100 | mA |
| Non-Repetitive Peak @ $t \leq 1.0s$ | I_{FSM} | 2 | A |
| Forward Surge Current @ $t = 10\mu s$ | | 1 | |
| Power Dissipation(Note 1) | P_d | 350 | mW |
| Thermal Resistance(Note 1) | R | 315 | K/W |
| Operation/Storage Temp. Range | T_j, T_{STG} | -55 to +150 | °C |

Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | | | | |
|------------------------------|----------|-------|----|--|--------------|--------------|
| Maximum Forward Voltage Drop | V_{FM} | 0.715 | V | $I_F = 1.0mA$ | | |
| | | 0.855 | | | $I_F = 10mA$ | |
| | | 1 | | | | $I_F = 50mA$ |
| | | 1.25 | | | | |
| Maximum Peak Reverse Current | I_{RM} | 1.0 | uA | $V_R = 75V T_j = 25^\circ C$ | | |
| | | 50 | | $V_R = 75V T_j = 150^\circ C$ | | |
| Junction Capacitance | C_j | 2 | pF | $V_R = 0V, f = 1.0MHz$ | | |
| Reverse Recovery Time | t_{rr} | 6 | ns | $I_F = I_R = 10mA, I_{rr} = 0.1I_R, R_L = 100 OHM$ | | |

Notes: 1. Valid provided that terminals are kept at ambient temperature

SOD323

| DIM | INCHES | | MM | | NOTE |
|-----|--------|------|-------|------|------|
| | MIN | MAX | MIN | MAX | |
| A | .090 | .107 | 2.30 | 2.70 | |
| B | .063 | .071 | 1.60 | 1.80 | |
| C | .045 | .053 | 1.15 | 1.35 | |
| D | .031 | .045 | 0.80 | 1.15 | |
| E | .010 | .016 | 0.25 | 0.40 | |
| G | .004 | .018 | 0.10 | 0.45 | |
| H | .004 | .010 | 0.10 | 0.25 | |
| J | ----- | .006 | ----- | 0.15 | |

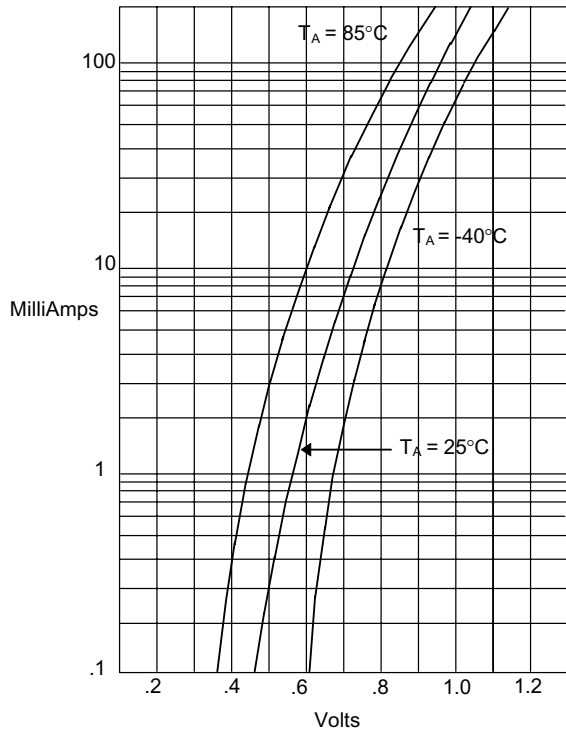
SUGGESTED SOLDER PAD LAYOUT

BAS16WX



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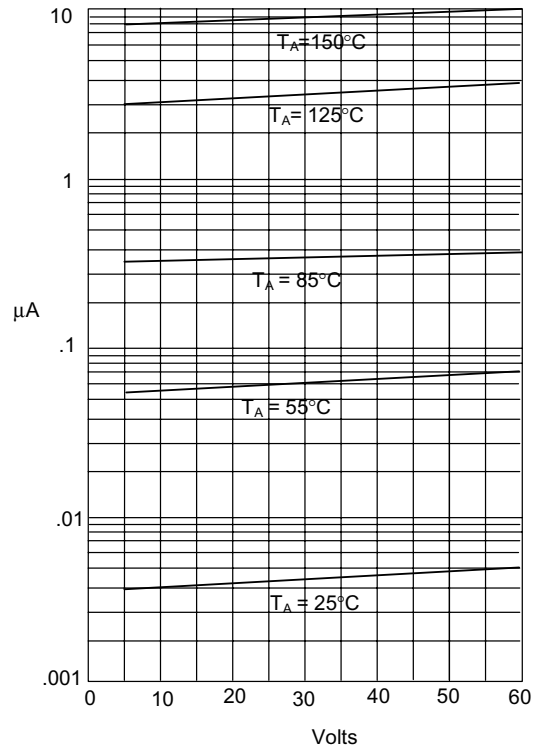
Figure 1
Typical Forward Characteristics



Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

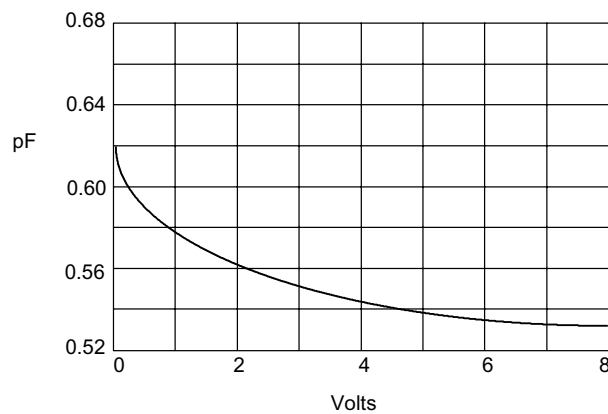
Figure 2

Typical Reverse Characteristics



Instantaneous Reverse Current - MicroAmperes *versus*
Reverse Voltage - Volts

Figure 3
Diode Capacitance



Diode Capacitance - pF *versus*
Reverse Voltage - Volts



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Ordering Information :

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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