

BAS16W

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SURFACE MOUNT FAST SWITCHING DIODE

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Features

- High Conductance
- Fast Switching
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose and Switching
- Plastic Material UL Recognition Flammability Classification 94V-O

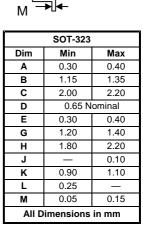
Mechanical Data

- Case: SOT-323, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram
- Weight: 0.006 grams (approx.)
- Mounting Position: Any
- Marking: A6



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TOP VIEW



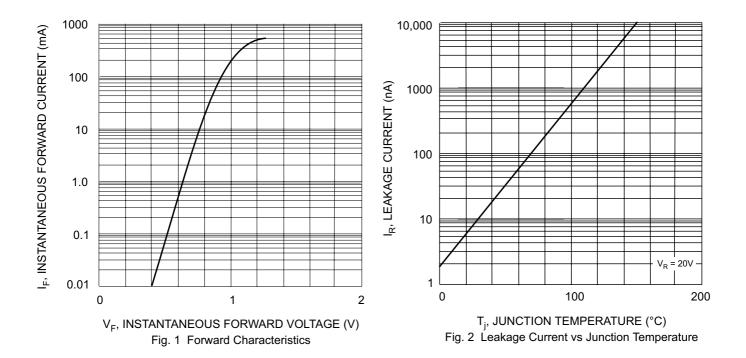
Maximum Ratings @T_A=25°C unless otherwise specified

| Characteristic | Symbol | Value | Unit | |
|--|--------------------|-------------|------|--|
| Non-Repetitive Peak Reverse Voltage | Vrm | 100 | V | |
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | Vrrm Vrwm Vr | 75 | V | |
| Forward Continuous Current (Note 1) | lf | 300 | mA | |
| Average Rectified Output Current (Note 1) | lo | 150 | mA | |
| Peak Forward Surge Current (Note 1) @ t < 1.0µs | IFSM | 2.0 | А | |
| Power Dissipation (Note 1) | Pd | 200 | mW | |
| Typical Thermal Resistance, Junction to Ambient Air (Note 1) | RθJA | 625 | °C/W | |
| Operating and Storage Temperature Range | Тј, Тѕтс | -65 to +150 | °C | |

Electrical Characteristics @T_A=25°C unless otherwise specified

| Characteristic | Symbol | Min | Max | Unit | Test Condition |
|-------------------------|--------|-----|--------------|------|--|
| Forward Voltage | VF | | 0.855 1.0 | V | @ IF = 10mA @ IF = 50mA |
| Reverse Leakage Current | IR | _ | 1.0 | μA | @ VR = 75V |
| Junction Capacitance | Cj | - | 2.0 | pF | VR = 0V, f = 1.0MHz |
| Reverse Recovery Time | trr | | 6.0 | nS | $\label{eq:IF} \begin{array}{l} IF=IR=10mA,\\ IRR=0.1\ x\ IR,\ RL=100\Omega \end{array}$ |

Note: 1. Device mounted on fiberglass substrate 40 x 40 x 1.5mm.



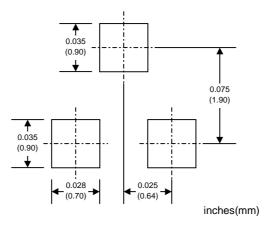
ORDERING INFORMATION

| Product No.+ | Package Type | Shipping Quantity | | |
|--------------|--------------|-------------------|--|--|
| BAS16W-T1 | SOT-323 | 3000/Tape & Reel | | |
| BAS16W-T3 | SOT-323 | 10000/Tape & Reel | | |

Products listed in **bold** are WTE **Preferred** devices. *T1 suffix refers to a 7" reel. T3 suffix refers to a 13" reel.

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

RECOMMENDED FOOTPRINT



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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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