# MSKSEMI 美森科













ESD

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MOV

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PLED

**BAS16WX** 

# Product specification

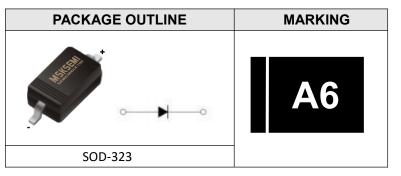




## FEATURES

- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance

#### **Reference News**



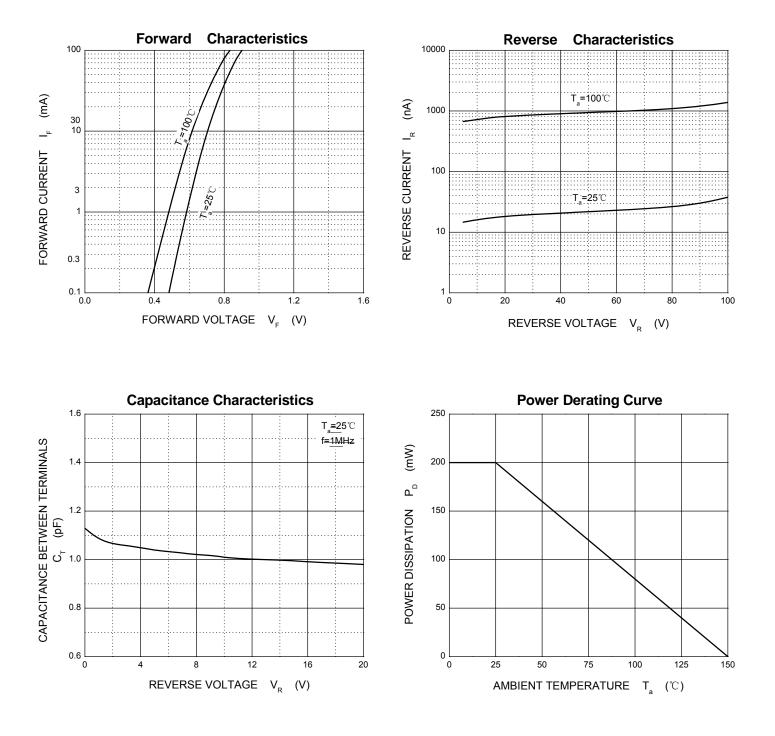
### Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25℃

| Parameter  | Symbol                            | Limit    | Unit |
|--|-----------------------------------|----------|------|
| Non-Repetitive Peak Reverse Voltage                | Vrm                               | 85       | V    |
| Peak Repetitive Peak Reverse Voltage               | VRRM                              |          |      |
| Working Peak Reverse Voltage                       | VRWM                              | 75       | V    |
| DC Blocking Voltage                                | VR                                |          |      |
| RMS Reverse Voltage                                | Vr(rms)                           | 53       | V    |
| Average Rectified Output Current                   | lo                                | 100      | mA   |
| Non-Repetitive Peak Forward Surge Current @t=8.3ms | IFSM                              | 2.0      | A    |
| Power Dissipation                                  | Pd                                | 200      | mW   |
| Thermal Resistance Junction to Ambient             | R <sub>eja</sub>                  | 625      | °C/W |
| Operation Junction and Storage Temperature Range   | T <sub>J</sub> , T <sub>STG</sub> | -55~+150 | °C   |

# Electrical Ratings @Ta=25°C

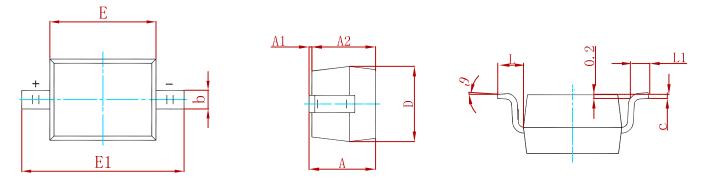
| Parameter             | Symbol            | Test conditions  | Min   | Тур   | Max  | Unit |  |
|-----------------------|-------------------|--|-------|-------|------|------|--|
| Reverse voltage       | V <sub>(BR)</sub> | l <sub>R</sub> =10µA   | 75    |       |      | V    |  |
|                       | VF                | l⊧=1mA   | 0.715 |       |      |      |  |
| Forward voltage       |                   | l⊧=10mA  |       | 0.855 |      | v    |  |
|                       |                   | l⊧=50mA  |       |       | 1    |      |  |
|                       |                   | l <sub>F</sub> =150mA  |       |       | 1.25 |      |  |
| Reverse current       | IR                | V <sub>R</sub> =75V  |       |       | 1    | μA   |  |
| Total capacitance     | Ctot              | V <sub>R</sub> =0V,f=1MHz  |       |       | 2    | pF   |  |
| Reverse recovery time | t <sub>rr</sub>   | $I_{F}=I_{R}=10mA$ , $I_{rr}=0.1 \times I_{R}$ , $R_{L}=100\Omega$ |       |       | 6    | ns   |  |





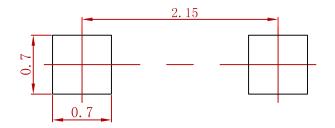


#### PACKAGE MECHANICAL DATA



| Symphol. | Dimensions In Millimeters |       | Dimensions In Inches |       |  |
|----------|---------------------------|-------|----------------------|-------|--|
| Symbol   | Min.                      | Max.  | Min.                 | Max.  |  |
| А        |                           | 1.000 |                      | 0.039 |  |
| A1       | 0.000                     | 0.100 | 0.000                | 0.004 |  |
| A2       | 0.800                     | 0.900 | 0.031                | 0.035 |  |
| b        | 0.250                     | 0.350 | 0.010                | 0.014 |  |
| с        | 0.080                     | 0.150 | 0.003                | 0.006 |  |
| D        | 1.200                     | 1.400 | 0.047                | 0.055 |  |
| E        | 1.600                     | 1.800 | 0.063                | 0.071 |  |
| E1       | 2.550                     | 2.750 | 0.100                | 0.108 |  |
| L,       | 0.475 REF.                |       | 0.019 REF.           |       |  |
| L1       | 0.250                     | 0.400 | 0.010                | 0.016 |  |
| θ        | 0°                        | 8°    | 0°                   | 8°    |  |

#### Suggested Pad Layout



Note: 1.Controlling dimension:in millimeters.

2.General tolerance:±0.05mm.
3.The pad layout is for reference purposes only.

#### **REEL SPECIFICATION**

| P/N     | PKG     | QTY  |
|---------|---------|------|
| BAS16WX | SOD-323 | 3000 |



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