

## Schottky barrier diodes

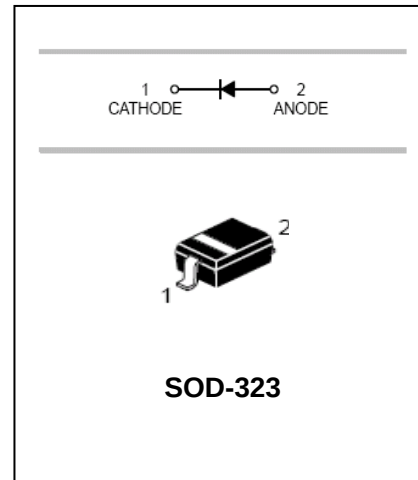
## BAS70WS

### FEATURES

- Low turn-on voltage
- Fast switching
- PN junction guard for transient and ESD protection



Lead-free



**SOD-323**

### APPLICATIONS

- Surface mount fast switching diode

### ORDERING INFORMATION

| Type No. | Marking | Package Code |
|----------|---------|--------------|
| BAS70WS  | K73     | SOD-323      |

### MAXIMUM RATING @ Ta=25°C unless otherwise specified

| Characteristic                         | Symbol          | Value       | Unit |
|----------------------------------------|-----------------|-------------|------|
| Peak repetitive peak reverse voltage   | $V_{RRM}$       | 70          | V    |
| Working peak reverse voltage           | $V_{RWM}$       |             |      |
| DC Reverse Voltage                     | $V_R$           |             |      |
| RMS reverse voltage                    | $V_{R(RMS)}$    | 49          | V    |
| Forward Continuous Current             | $I_F$           | 70          | mA   |
| Peak forward surge current@<1.0s       | $I_{FSM}$       | 100         | mA   |
| Power Dissipation                      | $P_d$           | 200         | mW   |
| Thermal Resistance Junction to Ambient | $R_{\theta JA}$ | 625         | °C/W |
| Junction and Storage Temperature Range | $T_J, T_{STG}$  | -65 to +150 | °C   |

### ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

| Characteristic                | Symbol      | Min | Max         | Unit | Test Condition                     |
|-------------------------------|-------------|-----|-------------|------|------------------------------------|
| Reverse Breakdown Voltage     | $V_{(BR)R}$ | 70  | -           | V    | $I_R=10\mu A$                      |
| Forward Voltage               | $V_F$       | -   | 410<br>1000 | mV   | $I_F=1.0mA$<br>$I_F=15mA$          |
| Reverse Current               | $I_R$       | -   | 100         | nA   | $V_R=50V$                          |
| Capacitance between terminals | $C_T$       | -   | 2           | pF   | $V_R=0, f=1.0MHz$                  |
| Reverse Recovery Time         | $t_{rr}$    | -   | 5           | ns   | $I_F=I_R=10mA,$<br>$R_L=100\Omega$ |

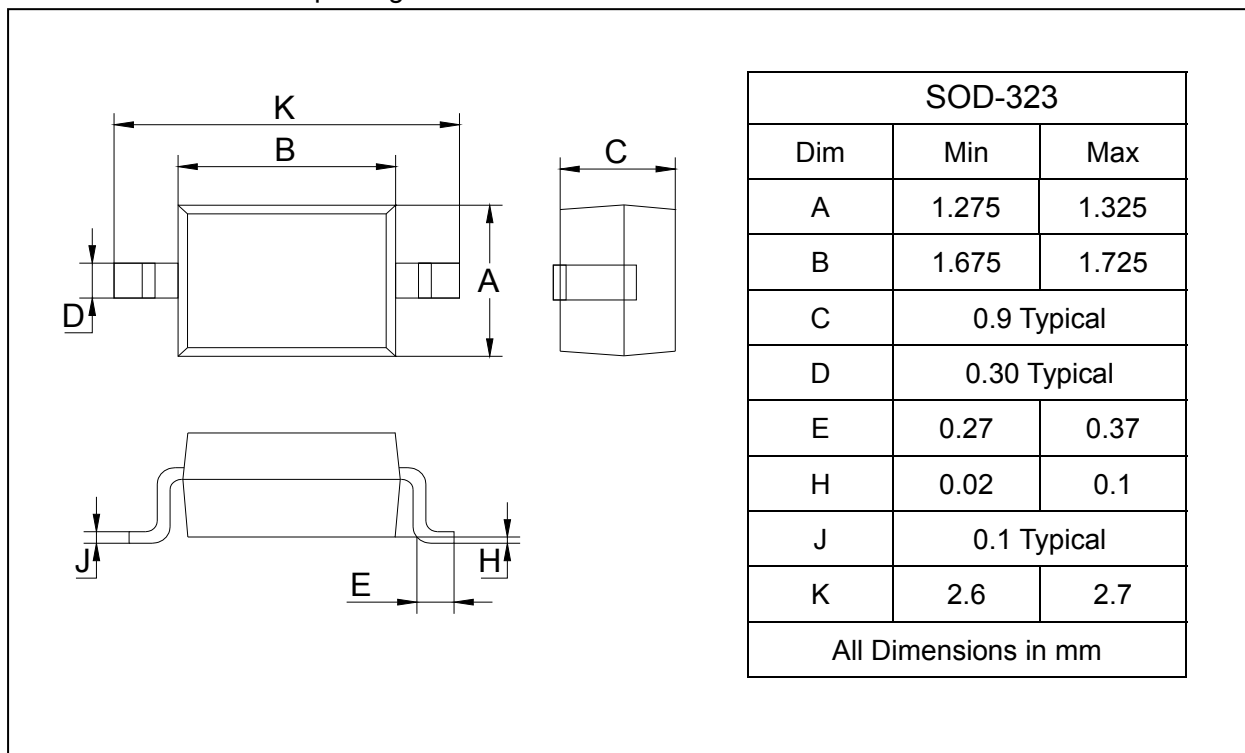
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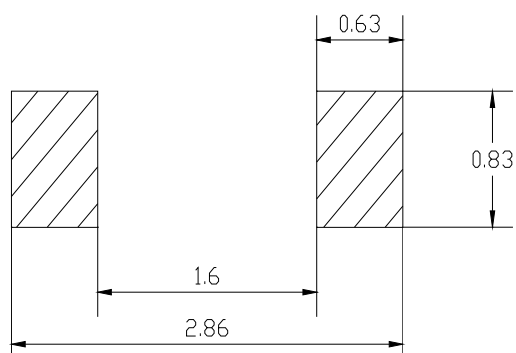
### PACKAGE OUTLINE

Plastic surface mounted package

SOD-323



### SOLDERING FOOTPRINT



Unit : mm

### PACKAGE INFORMATION

| Device  | Package | Shipping       |
|---------|---------|----------------|
| BAS70WS | SOD-323 | 3000/Tape&Reel |