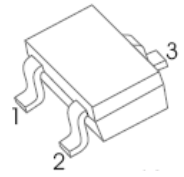




### BAS70W/04/05/06 Plastic-Encapsulate Diodes

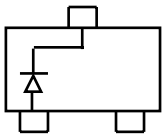
SCHOKKTY BARRIER DIODE



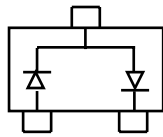
#### FEATURES

- Low turn-on voltage
- Fast switching
- Also available in lead free version

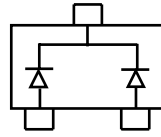
**SOT-323**



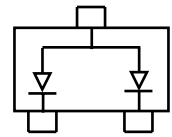
BAS70W Marking: K73



BAS70W-04 Marking: K74



BAS70W-05 Marking: K75



BAS70W-06 Marking: K76

#### MAXIMUM RATINGS @Ta=25°C

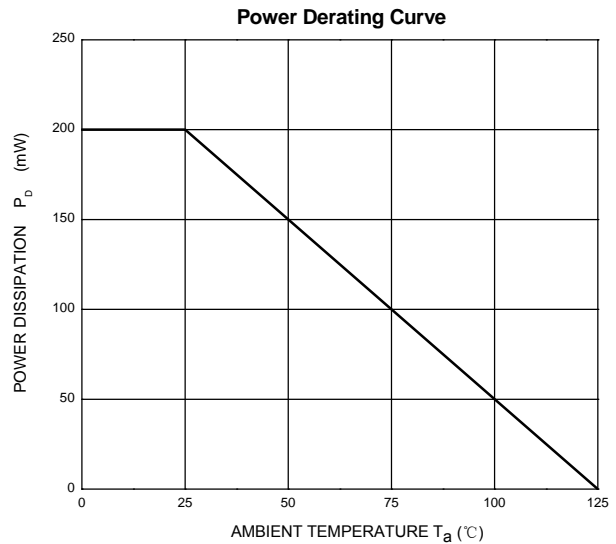
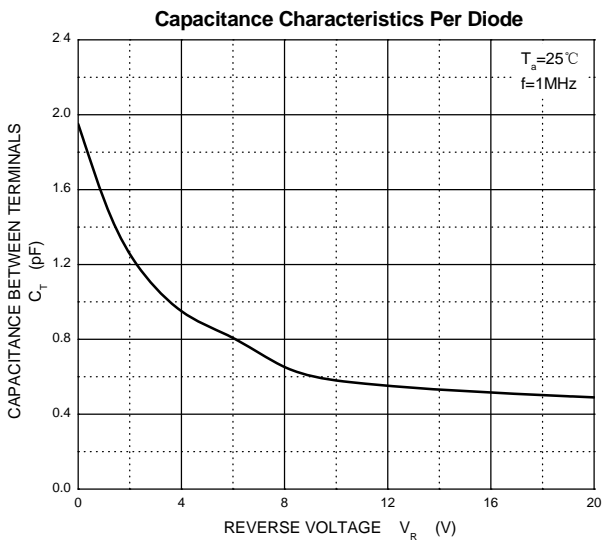
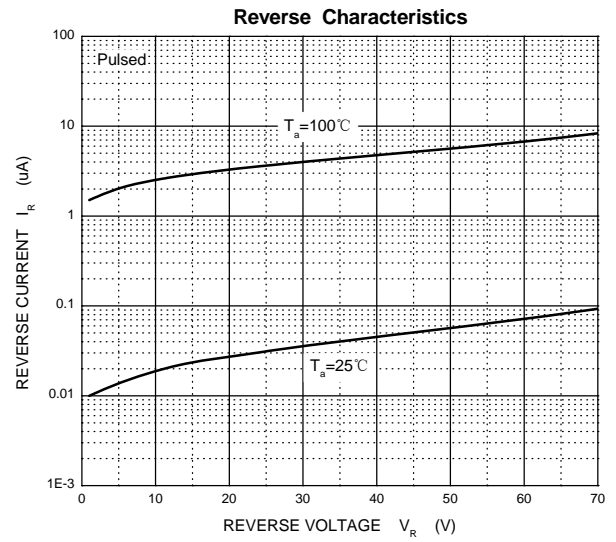
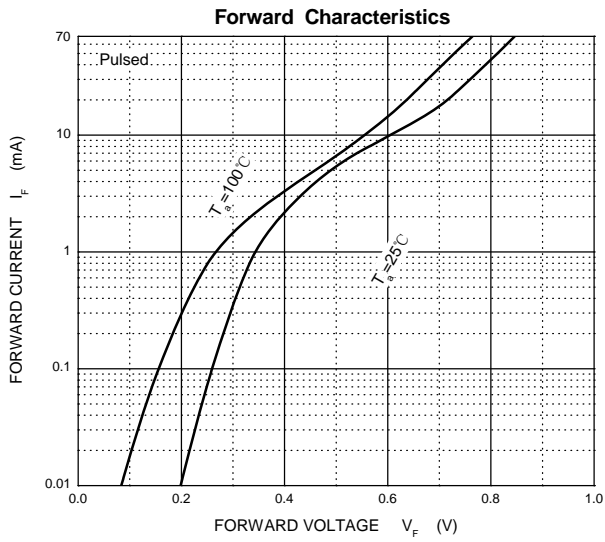
| Symbol          | Parameter   | Value    | Unit |
|-----------------|---|----------|------|
| $V_R$           | DC Voltage  | 70       | V    |
| $I_F$           | Forward Continuous Current                            | 70       | mA   |
| $I_{FSM}$       | Non-Repetitive Peak Forward Surge Current @ t = 8.3ms | 100      | mA   |
| $P_D$           | Power Dissipation                                     | 200      | mW   |
| $R_{\theta JA}$ | Thermal Resistance from Junction to Ambient           | 500      | °C/W |
| $T_J$           | Junction Temperature                                  | 125      | °C   |
| $T_{stg}$       | Storage Temperature                                   | -55~+150 | °C   |

#### ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

| Parameter                       | Symbol     | Test conditions   | Min | Max         | Unit |
|---------------------------------|------------|---|-----|-------------|------|
| Reverse breakdown voltage       | $V_{(BR)}$ | $I_R = 10\mu A$   | 70  |             | V    |
| Reverse voltage leakage current | $I_R$      | $V_R = 50V$   |     | 100         | nA   |
| Forward voltage                 | $V_F$      | $I_F = 1mA$<br>$I_F = 15mA$                               |     | 410<br>1000 | mV   |
| Diode capacitance               | $C_D$      | $V_R = 0V, f = 1MHz$                                      |     | 2           | pF   |
| Reveres recovery time           | $t_{rr}$   | $I_F = I_R = 10mA, I_{rr} = 0.1I_R,$<br>$R_L = 100\Omega$ |     | 5           | ns   |

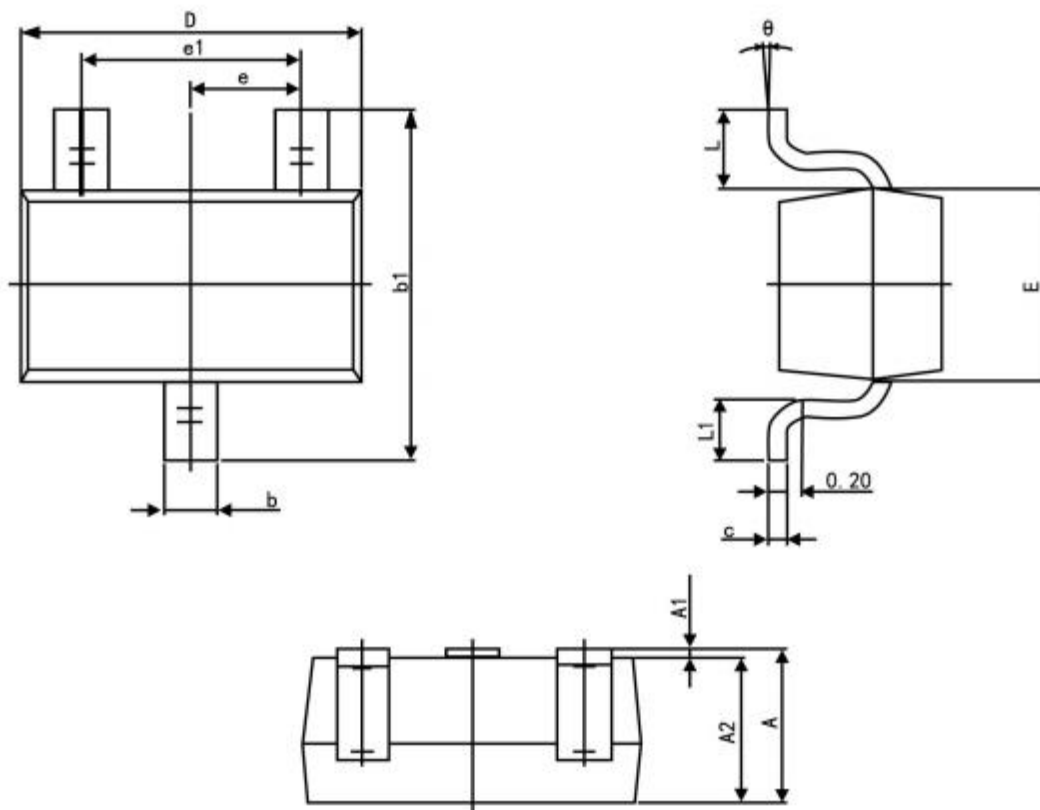


## Typical Characteristics





## SOT-323 Package Outline Dimensions



| Symbol | Dimension in Millimeters |       |
|--------|--------------------------|-------|
|        | Min                      | Max   |
| A      | 0.900                    | 1.100 |
| A1     | 0.000                    | 0.100 |
| A2     | 0.900                    | 1.000 |
| b      | 0.200                    | 0.400 |
| c      | 0.080                    | 0.150 |
| D      | 2.000                    | 2.200 |
| E      | 1.150                    | 1.350 |
| E1     | 2.150                    | 2.450 |
| e      | 0.650 TYP.               |       |
| e1     | 1.200                    | 1.400 |
| L      | 0.525 REF.               |       |
| L1     | 0.260                    | 0.460 |
| θ      | 0°                       | 8°    |