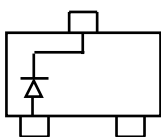
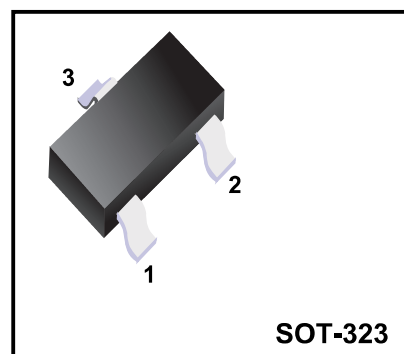


**Plastic-Encapsulate Diodes**

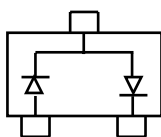
**SCHOKKTY BARRIER DIODE**

**FEATURES**

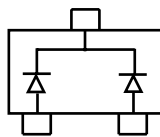
- ♦Low turn-on voltage
- ♦Fast switching
- ♦Also available in lead free version



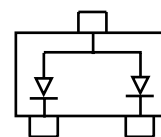
**BAS70W Marking: K73**



**BAS70W-04 Marking: K74**



**BAS70W-05 Marking: K75**



**BAS70W-06 Marking: K76**

**MARKING:**

| BAS70W | BAS70W-04 | BAS70W-05 | BAS70W-06 |
|--------|-----------|-----------|-----------|
|        |           |           |           |

Solid dot = Green molding compound device,if none,  
the normal device.

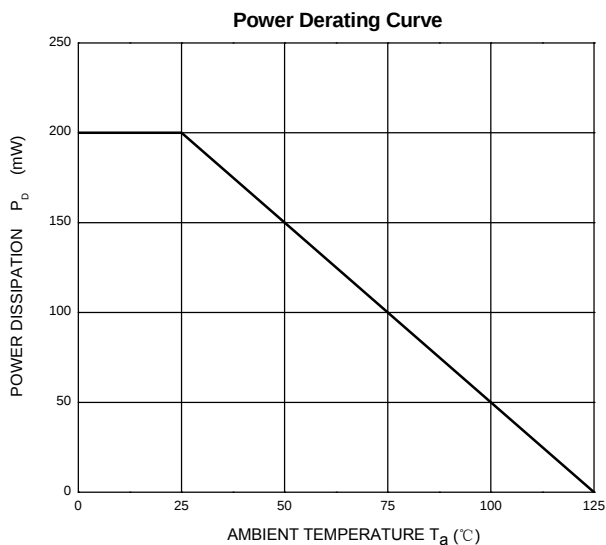
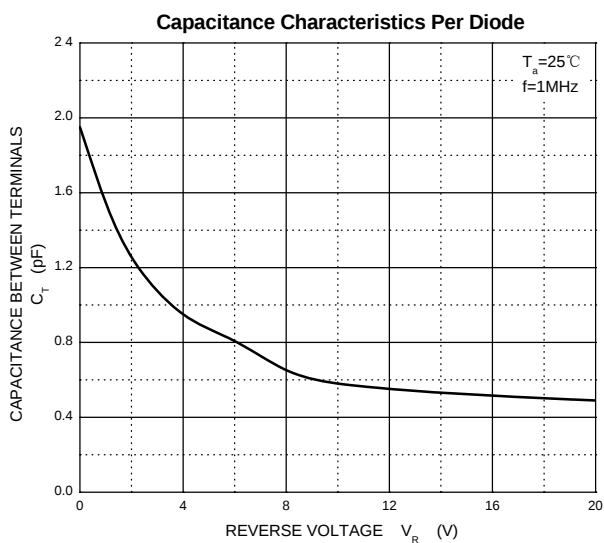
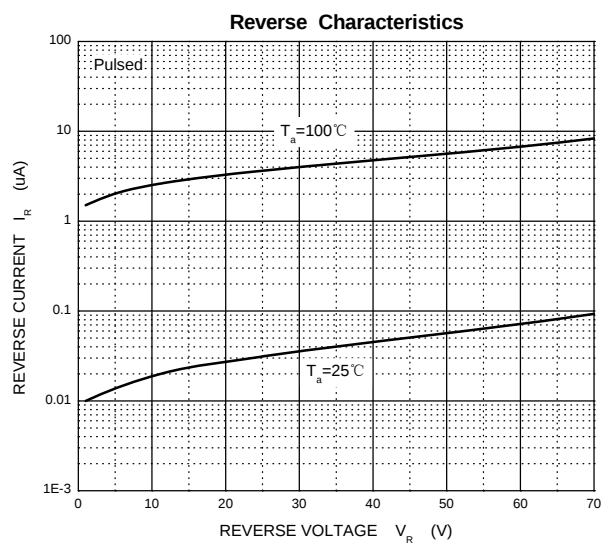
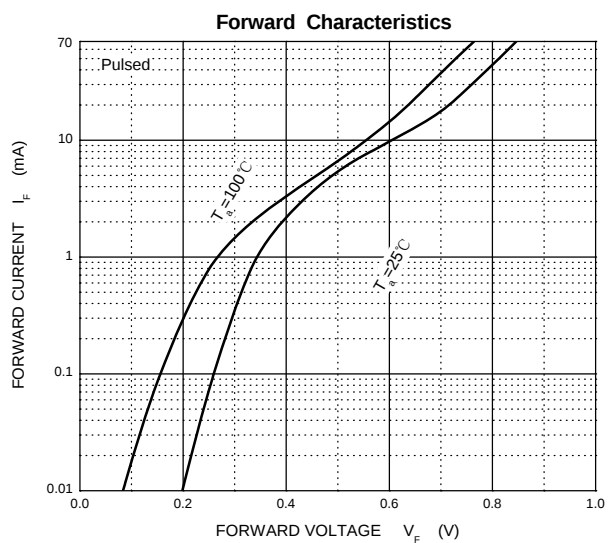
**MAXIMUM RATINGS @Ta=25℃**

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

**ELECTRICAL CHARACTERISTICS (Ta=25℃ unless otherwise specified)**

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

Typical Characteristics



**Ordering information**

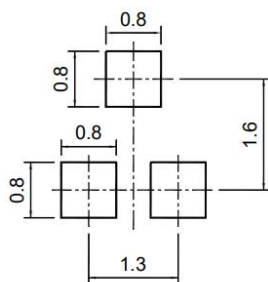
| Package | Packing Description | Base Quantity | Packing Quantity              |
|---------|---------------------|---------------|-------------------------------|
| SOT-323 | Tape/Reel, 7" reel  | 3000pcs/Reel  | 24000PCS/Box 120000PCS/Carton |

**Package Dimensions**

**SOT-323**

| Dim. | Millimeter (mm) |      | mil  |      |
|------|-----------------|------|------|------|
|      | Min.            | Max. | Min. | Max. |
| A    | 0.8             | 1.1  | 32   | 43   |
| A1   | 0.1             |      | 4    |      |
| bp   | 0.3             | 0.4  | 12   | 16   |
| C    | 0.10            | 0.25 | 4    | 10   |
| D    | 1.8             | 2.2  | 71   | 87   |
| E    | 1.15            | 1.35 | 45   | 53   |
| e    | 1.3             |      | 51   |      |
| e1   | 0.65            |      | 26   |      |
| HE   | 2.0             | 2.2  | 79   | 87   |
| Lp   | 0.15            | 0.45 | 6    | 18   |
| Q    | 0.13            | 0.23 | 5.1  | 9    |
| v    | 0.2             |      | 8    |      |
| W    | 0.2             |      | 8    |      |

**The recommended mounting pad size**



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