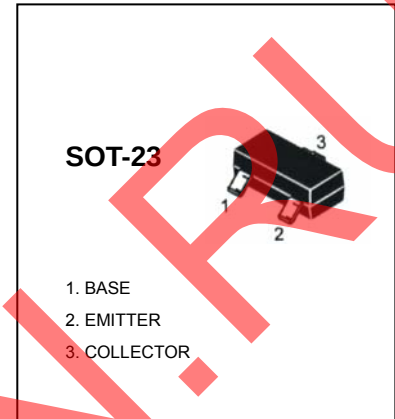
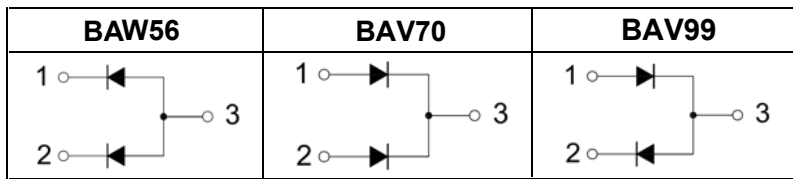


## SWITCHING DIODE

### FEATURES

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



### Maximum Ratings @Ta=25°C

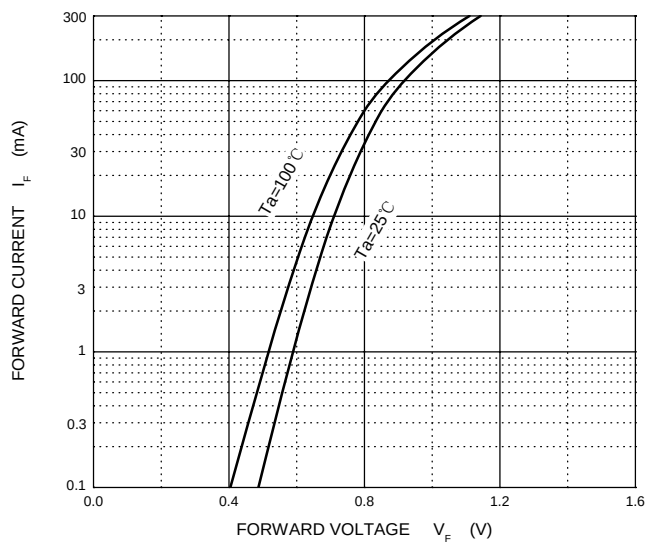
| Parameter                                          | Symbol          | Limit    | Unit |
|----------------------------------------------------|-----------------|----------|------|
| Reverse Voltage                                    | $V_R$           | 70       | V    |
| Forward Current                                    | $I_F$           | 200      | mA   |
| Non-Repetitive Peak Forward Surge Current @t=8.3ms | $I_{FSM}$       | 2.0      | A    |
| Power Dissipation                                  | $P_D$           | 225      | mW   |
| Thermal Resistance Junction to Ambient             | $R_{\theta JA}$ | 556      | °C/W |
| Junction Temperature                               | $T_J$           | 150      | °C   |
| Storage Temperature range                          | $T_{STG}$       | -55~+150 | °C   |

### Electrical Characteristics @Ta=25°C

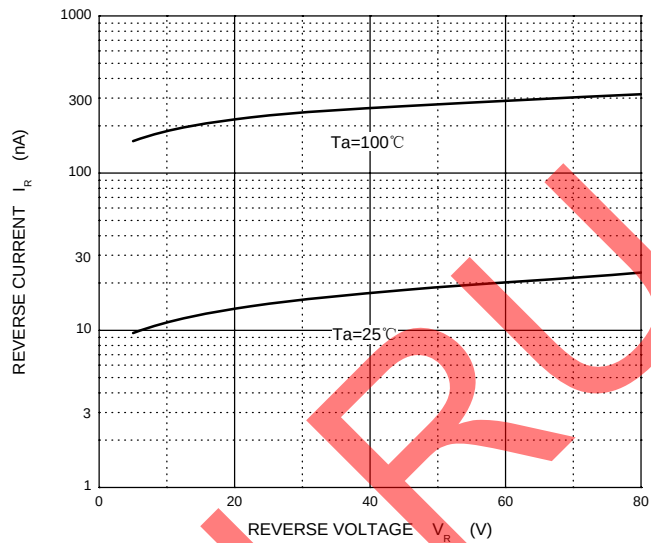
| Parameter                     | Symbol   | Min | Typ | Max   | Unit    | Conditions                                                            |
|-------------------------------|----------|-----|-----|-------|---------|-----------------------------------------------------------------------|
| Reverse breakdown voltage     | $V_R$    | 70  |     |       | V       | $I_R=100\mu A$                                                        |
| Forward voltage               | $V_{F1}$ |     |     | 0.715 | V       | $I_F=1mA$                                                             |
|                               | $V_{F2}$ |     |     | 0.855 | V       | $I_F=10mA$                                                            |
|                               | $V_{F3}$ |     |     | 1     | V       | $I_F=50mA$                                                            |
|                               | $V_{F4}$ |     |     | 1.25  | V       | $I_F=150mA$                                                           |
| Reverse current               | $I_R$    |     |     | 2.5   | $\mu A$ | $V_R=70V$                                                             |
| Capacitance between terminals | $C_T$    |     |     | 1.5   | pF      | $V_R=0, f=1MHz$                                                       |
| Reverse recovery time         | $t_{rr}$ |     |     | 6     | ns      | $I_F = I_R = 10mA$ ,<br>$I_{rr} = 0.1 \times I_R$ , $R_L = 100\Omega$ |

## Typical Characteristics

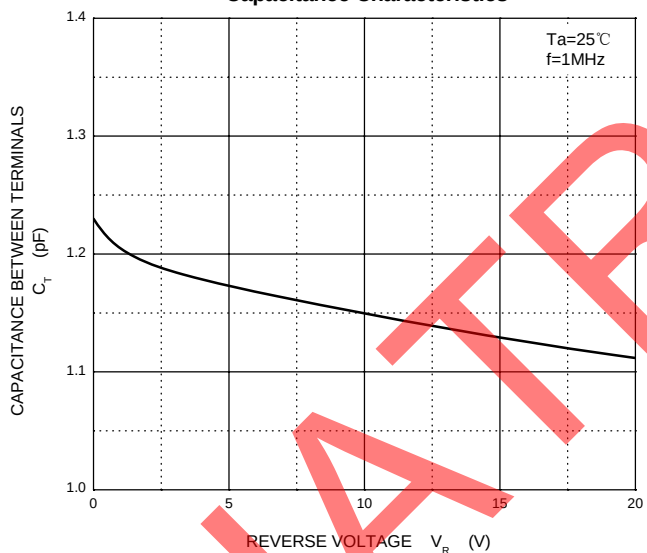
Forward Characteristics



Reverse Characteristics



Capacitance Characteristics



Power Derating Curve

