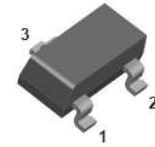
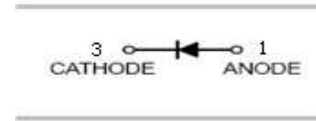


FEATURES

- Ultra high switching speed.
- Low forward voltage.
- Guard ring protected.
- Small plastic SMD package.



SOT-23

APPLICATIONS

- Ultra high-speed switching.
- Voltage clamping.
- Protection circuits.

ORDERING INFORMATION

| Type No. | Marking | Package Code |
|----------|---------|--------------|
| BAT720□ | L61 | SOT-23 |

□: none is for Lead Free package;

“G” is for Halogen Free package.

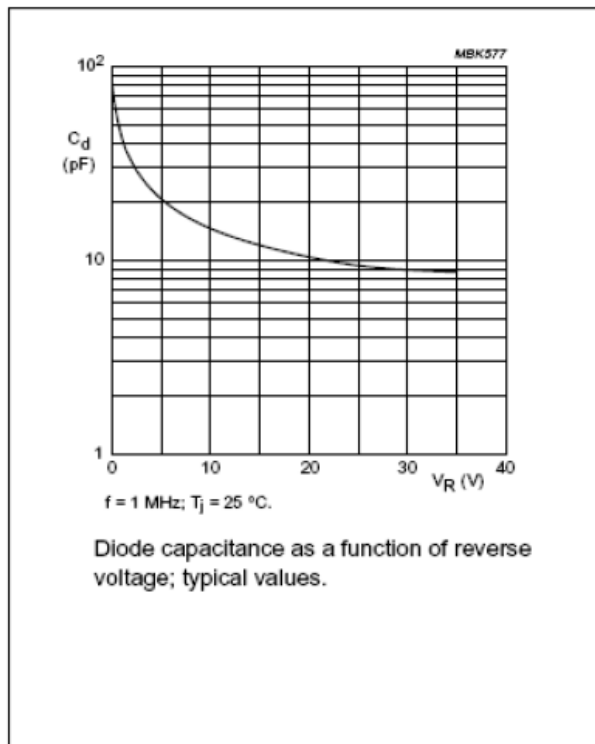
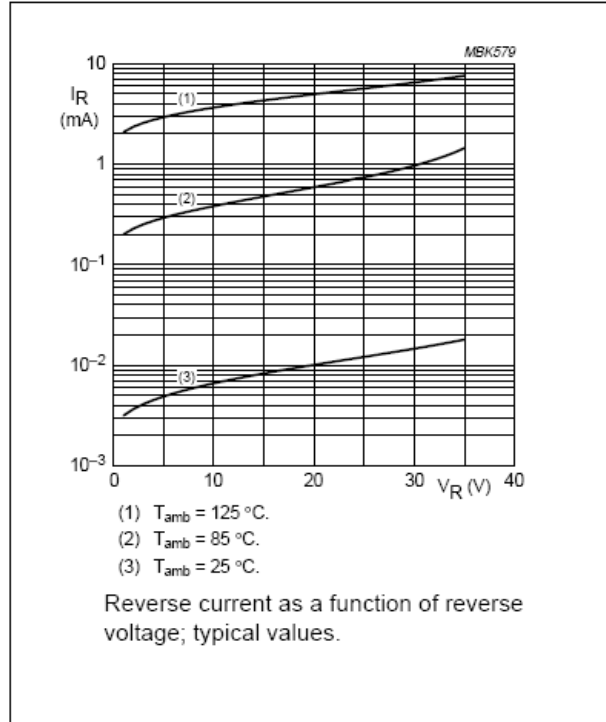
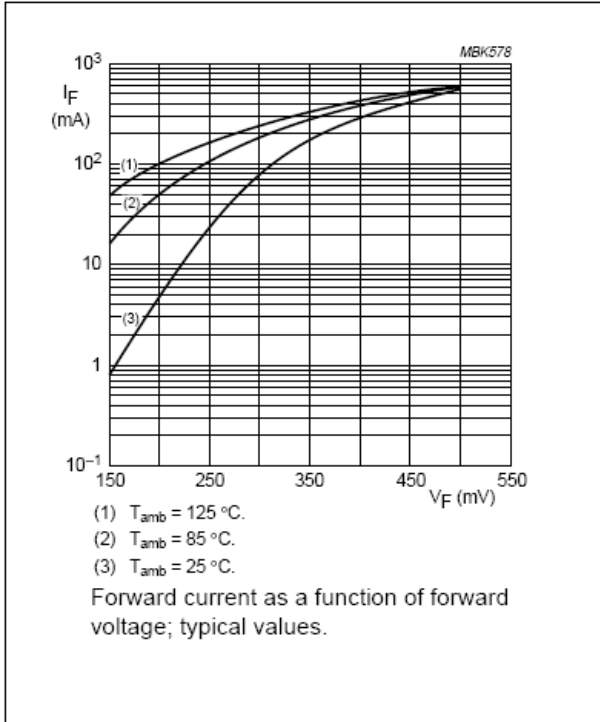
MAXIMUM RATING @ Ta=25°C unless otherwise specified

| Characteristic | Symbol | Limits | Unit |
|---|-----------|-------------|------|
| DC Reverse Voltage | V_R | 40 | V |
| Forward Continuous Current | I_F | 500 | mA |
| Non-repetitive forward Surge @ $t_p < 10ms$ | I_{FSM} | 2 | A |
| Power Dissipation | P_d | 350 | mW |
| Operating Junction Temperature Range | T_j | 125 | °C |
| Storage Temperature Range | T_{STG} | -65 to +125 | °C |

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

| Characteristic | Symbol | Min | MAX | UNIT | Test Condition |
|-------------------------|--------|-----|-----------|---------------|--|
| Forward Voltage | V_F | - | 550 | mV | $I_F=500mA$ |
| Reverse Leakage Current | I_R | - | 100 10 | μA mA | $V_R=35V$ $V_R=35V T_j=100^\circ C$ |
| Diode Capacitance | C_D | 60 | 90 | pF | $V_R=0V, f=1.0MHz$ |

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

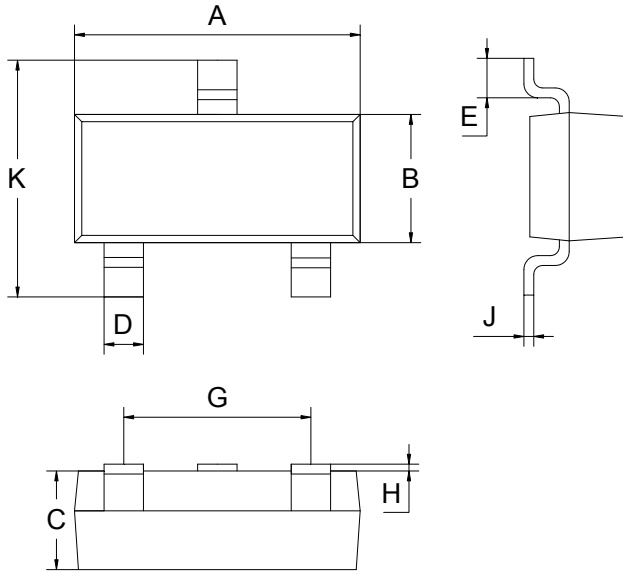




PACKAGE OUTLINE

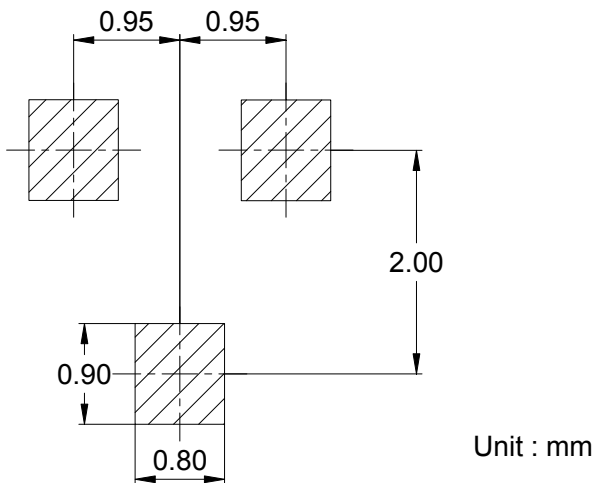
Plastic surface mounted package

SOT-23



| SOT-23 | | |
|----------------------|------|------|
| Dim | Min | Max |
| A | 2.70 | 3.10 |
| B | 1.10 | 1.50 |
| C | 0.90 | 1.10 |
| D | 0.30 | 0.50 |
| E | 0.35 | 0.48 |
| G | 1.80 | 2.00 |
| H | 0.02 | 0.10 |
| J | 0.05 | 0.15 |
| K | 2.20 | 2.60 |
| All Dimensions in mm | | |

SOLDERING FOOTPRINT



PACKAGE INFORMATION

| Device | Package | Shipping |
|--------|---------|----------------|
| BAT720 | SOT-23 | 3000/Tape&Reel |