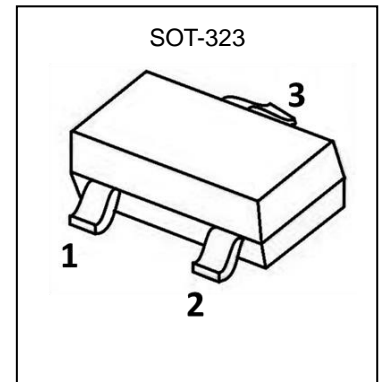
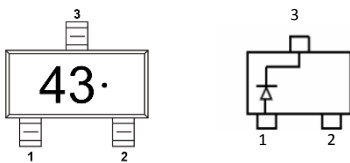


BAS40W Series Schottky Barrier Diode

Feature

- Extremely Fast Switch Speed
- Low Forward Voltage

MARKING:



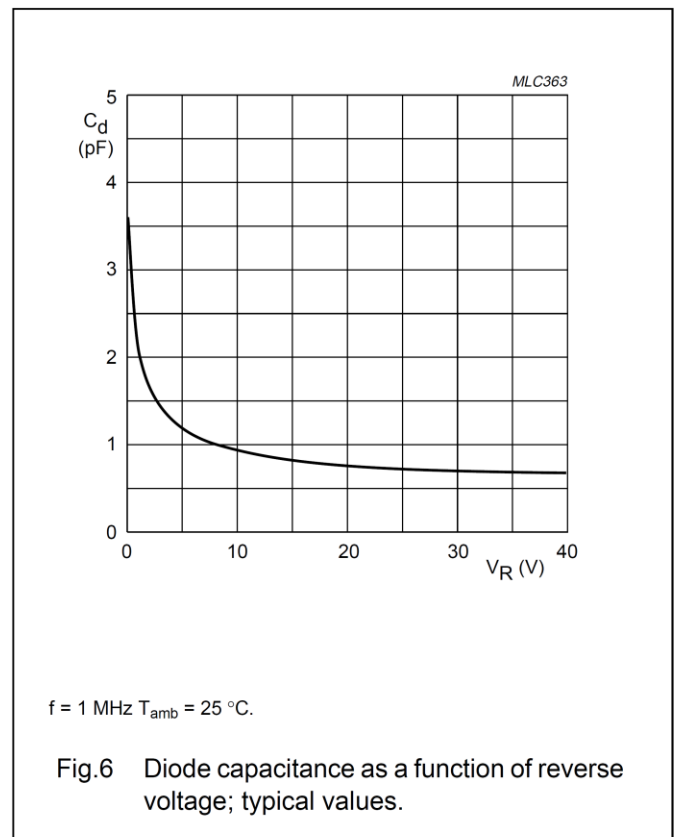
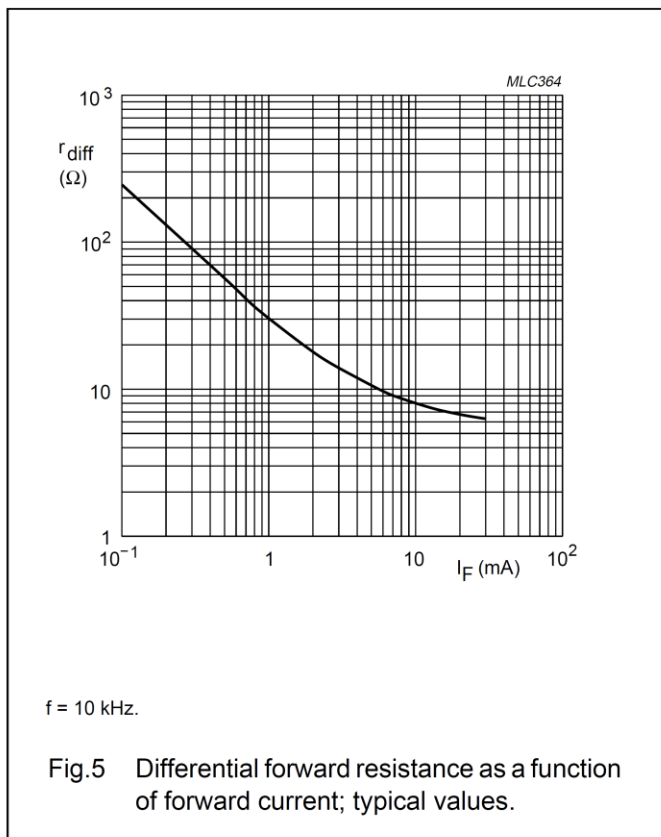
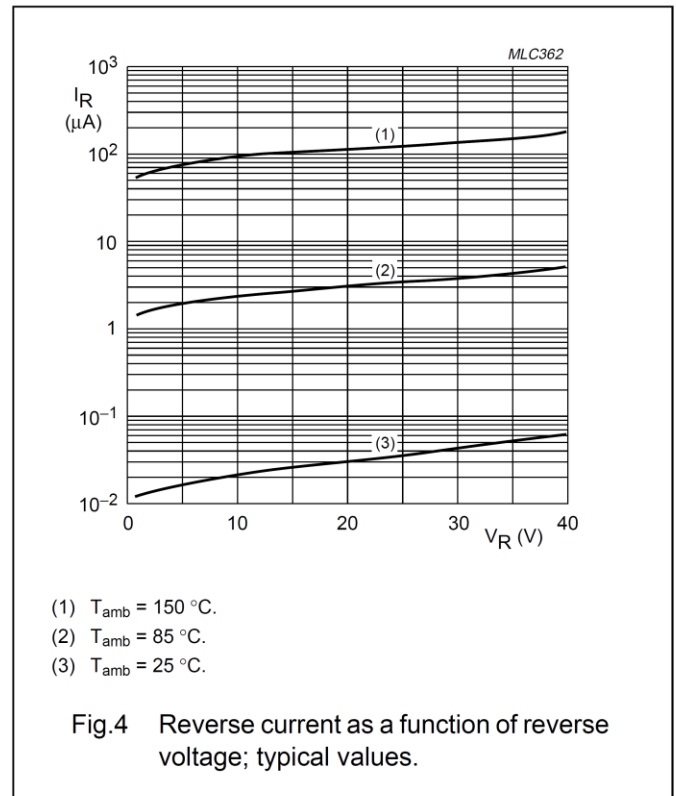
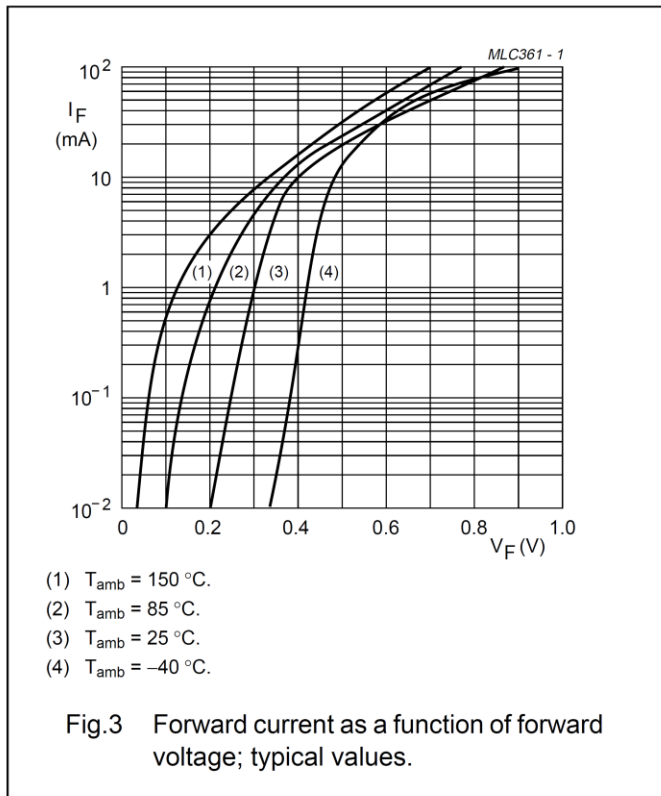
ABSOLUTE MAXIMUM RATINGS ($T_a=25^\circ\text{C}$ unless otherwise noted)

| Parameter | Symbol | Value | Unit |
|--|-----------|------------|------------------|
| DC reverse voltage | V_R | 40 | V |
| Mean rectifying current | I_o | 0.12 | A |
| Non-repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$ | I_{FSM} | 0.6 | A |
| Junction Temperature | T_J | 125 | $^\circ\text{C}$ |
| Storage Temperature Range | T_{STG} | -55 ~ +150 | $^\circ\text{C}$ |

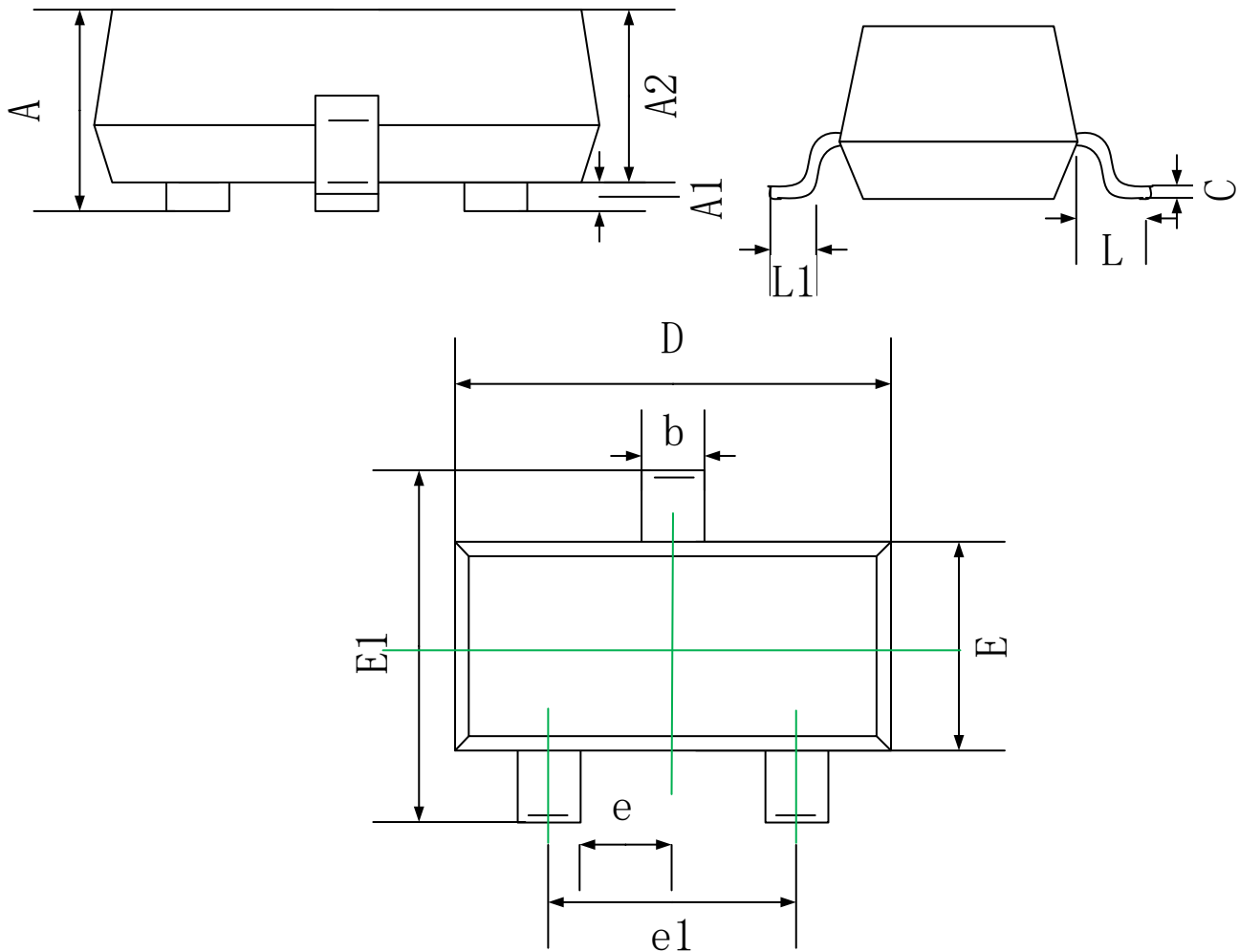
ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$ unless otherwise noted)

| Parameter | Symbol | Test Condition | Min | Type | Max | Unit |
|-------------------------------|------------|--------------------------------|-----|------|------|---------------|
| Reverse breakdown voltage | $V_{(BR)}$ | $I_R=100\mu\text{A}$ | 30 | | | V |
| Forward voltage | V_{F1} | $I_F=1\text{mA}$ | | | 0.38 | V |
| | V_{F2} | $I_F=10\text{mA}$ | | | 0.50 | V |
| | V_{F3} | $I_F=40\text{mA}$ | | | 1 | V |
| Reverse current | I_R | $V_R=30\text{V}$ | | | 1 | μA |
| | | $V_R=40\text{V}$ | | | 10 | μA |
| Capacitance between terminals | C_T | $V_R=1\text{V}, f=1\text{MHz}$ | | | 5 | pF |

Typical Characteristics



SOT-323 Package Outline Dimensions



| Symbol | Dimensions In Millimeters | |
|--------|---------------------------|------|
| | Min. | Max. |
| A | 0.90 | 1.10 |
| A1 | 0.00 | 0.10 |
| A2 | 0.90 | 1.00 |
| b | 0.30 | 0.50 |
| c | 0.10 | 0.15 |
| D | 2.00 | 2.20 |
| E | 1.15 | 1.35 |
| E1 | 2.15 | 2.40 |
| e | 0.65 TYP. | |
| e1 | 1.20 | 1.40 |
| L | 0.525 REF. | |
| L1 | 0.26 | 0.46 |