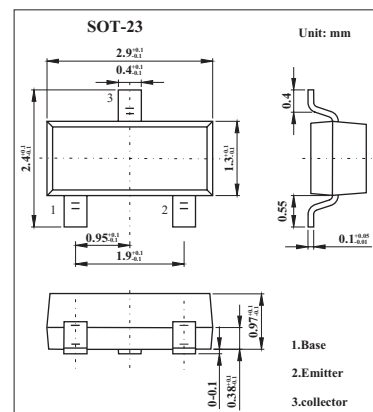


Silicon RF Switching Diode

BAT18;BAT18-04
BAT18-05;BAT18-06
■ Features

- Low-loss VHF/UHF switch above 10 MHz
- Pin diode with low forward resistance


■ Absolute Maximum Ratings Ta = 25°C

| Parameter | Symbol | Value | Unit |
|---|------------------------------------|-------------|------|
| Reverse Voltage | V _R | 35 | V |
| Forward Current | I _F | 100 | mA |
| Operating and storage temperature range | T _{op} , T _{stg} | -55 to +150 | °C |
| Junction - ambient | R _{th JA} | ≤450 | K/W |

■ Electrical Characteristics Ta = 25°C

| Parameter | Symbol | Conditions | Min | Typ | Max | Unit |
|--------------------|----------------|--|-----|------|-----|------|
| Forward voltage | V _F | I _F = 100 mA | | 0.38 | 1.2 | V |
| Reverse current | I _R | V _R = 20 V | | | 20 | nA |
| | | V _R = 20 V, T _A = 60°C | | | 200 | |
| Diode capacitance | C _T | V _R = 20 V, f = 1 MHz | | 0.75 | 1 | pF |
| Forward resistance | r _f | I _F = 5 mA, f = 100 MHz | | 0.4 | 0.7 | Ω |
| Series inductance | L _s | | | 2 | | nH |

■ Marking

| Type | BAT18 | BAT18-04 | BAT18-05 | BAT18-06 |
|---------|-------|----------|----------|----------|
| Marking | A2 | AU | AS | AT |