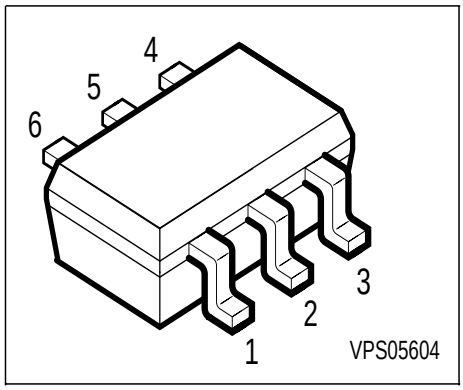
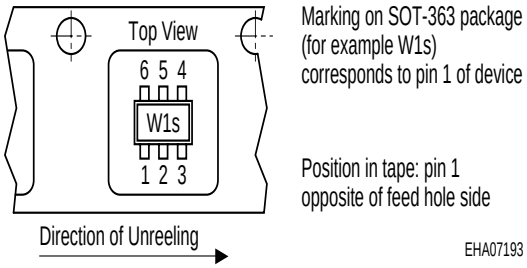
**Silicon Schottky Diode Array**

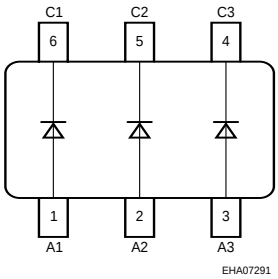
**Preliminary data**

- For mixer applications in the VHF / UHF range
- For high-speed switching applications




**Tape loading orientation**




**ESD**: **E**lectro**s**tatic **d**ischarge sensitive device, observe handling precautions!

| Type | Marking | Ordering Code | Pin Configuration | | | | | | Package |
|---|---|---|---|---|---|---|---|---|---|
| BAT 68-08S | 83s | Q62702-A1344 | 1=A1 | 2=A2 | 3=A3 | 4=C3 | 5=C2 | 6=C1 | SOT-363 |

**Maximum Ratings**

| Parameter | Symbol | Value | Unit |
|---|---|---|---|
| Diode reverse voltage | $V_R$ | 8 | V |
| Forward current | $I_F$ | 130 | mA |
| Total power dissipation, $T_S \leq 40°C$ | $P_{tot}$ | 150 | mW |
| Junction temperature | $T_j$ | 150 | °C |
| Storage temperature | $T_{stg}$ | -55...+150 | |

**Thermal Resistance**

| | | | |
|---|---|---|---|
| Junction - ambient 1) | $R_{thJA}$ | ≤ 640 | K/W |
| Junction - soldering point | $R_{thJS}$ | ≤ 390 | |

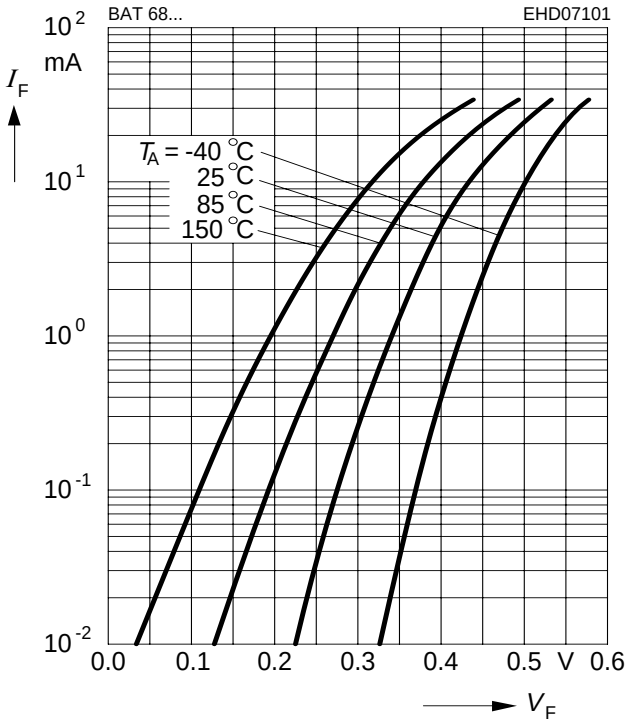
1) Package mounted on alumina 15mm x 16.7mm x 0.7mm

**Electrical Characteristics** at $T_A$ = 25°C, unless otherwise specified.

| Parameter | Symbol | Values | | | Unit |
|---|---|---|---|---|---|
| | | min. | typ. | max. | |
| **Characteristics** | | | | | |
| Breakdown voltage<br>$I_{(BR)}$ = 10 µA | $V_{(BR)}$ | 8 | - | - | V |
| Reverse current<br>$V_R$ = 1 V | $I_R$ | - | - | 0.1 | µA |
| Reverse current<br>$V_R$ = 1 V, $T_A$ = 150 °C | $I_R$ | - | - | 1.2 | |
| Forward voltage<br>$I_F$ = 1 mA<br>$I_F$ = 10 mA | $V_F$ | <br>-<br>330 | <br>318<br>390 | <br>340<br>500 | mV |
| **AC characteristics** | | | | | |
| Diode capacitance<br>$V_R$ = 0 V, $f$ = 1 MHz | $C_T$ | - | - | 1 | pF |
| Forward resistance<br>$I_F$ = 5 mA, $f$ = 100 MHz | $R_f$ | - | - | 10 | Ω |

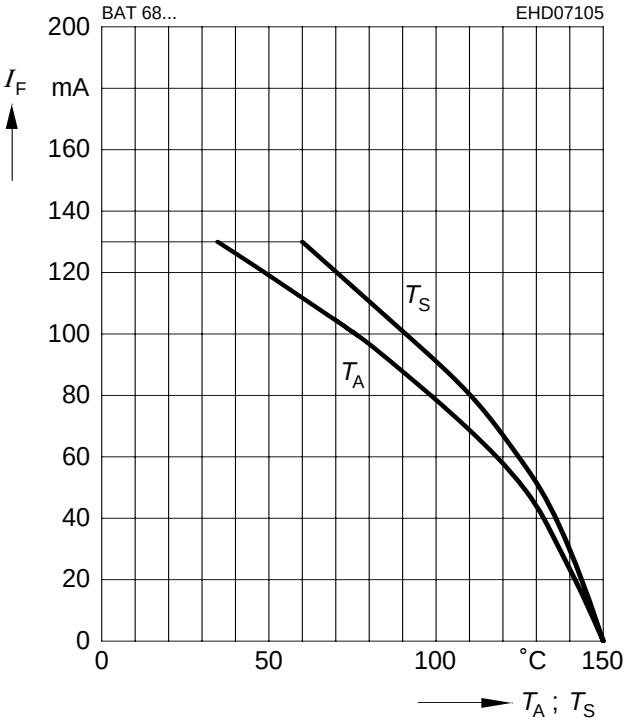
**Forward current** $I_F = f(V_F)$

$T_A$ = Parameter



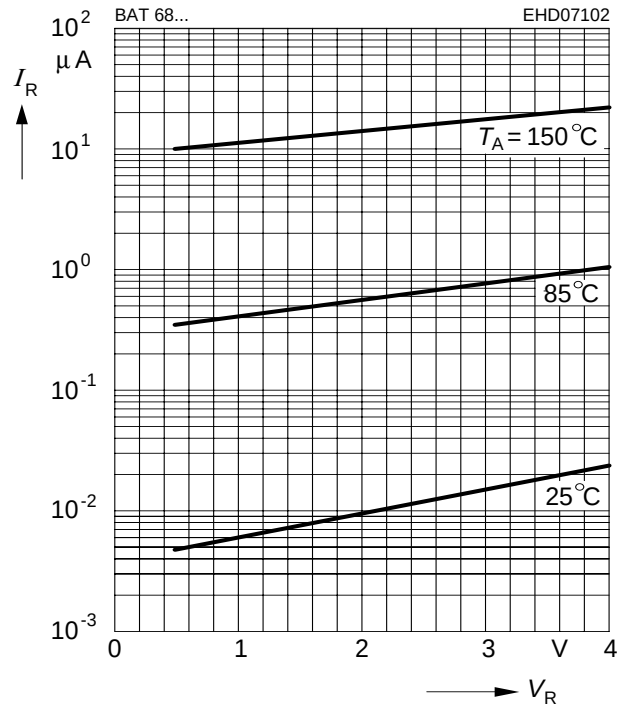

**Forward current** $I_F = f(T_A^*; T_S)$

* Package mounted on alumina



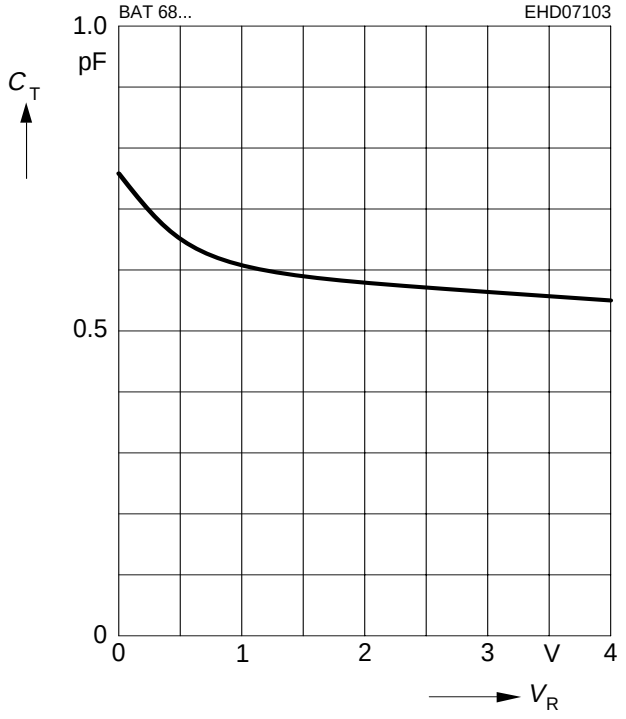

**Reverse current** $I_R = f(V_R)$

$T_A$ = Parameter




**Diode capacitance** $C_T = f(V_R)$

$f$ = 1MHz



**Differential forward resistance** $r_f = f(I_F)$

$f$ = 10 kHz