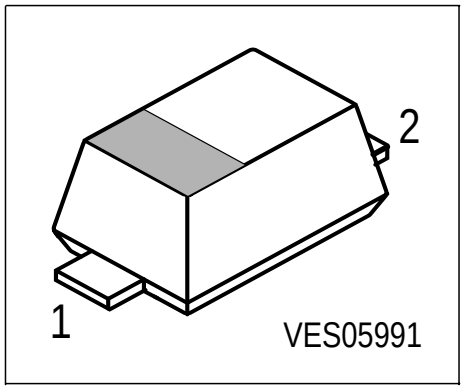
**Silicon Rf Switching Diode**

**Preliminary data**

- For VHF band switching in TV / VTR tuners
- Low forward resistance, small capacitance, small inductance




| Type | Marking | Ordering Code | Pin Configuration | | Package |
|---|---|---|---|---|---|
| BA 892 | A | Q62702-A1214 | 1 = C | 2 = A | SCD-80 |

**Maximum Ratings**

| Parameter | Symbol | Value | Unit |
|---|---|---|---|
| Diode reverse voltage | $V_R$ | 35 | V |
| Forward current | $I_F$ | 100 | mA |
| Operating temperature range | $T_{op}$ | -55 ...+125 | °C |
| Storage temperature | $T_{stg}$ | -55 ...+150 | |

**Thermal Resistance**

| | | | |
|---|---|---|---|
| Junction - ambient 1) | $R_{thJA}$ | ≤ 450 | K/W |

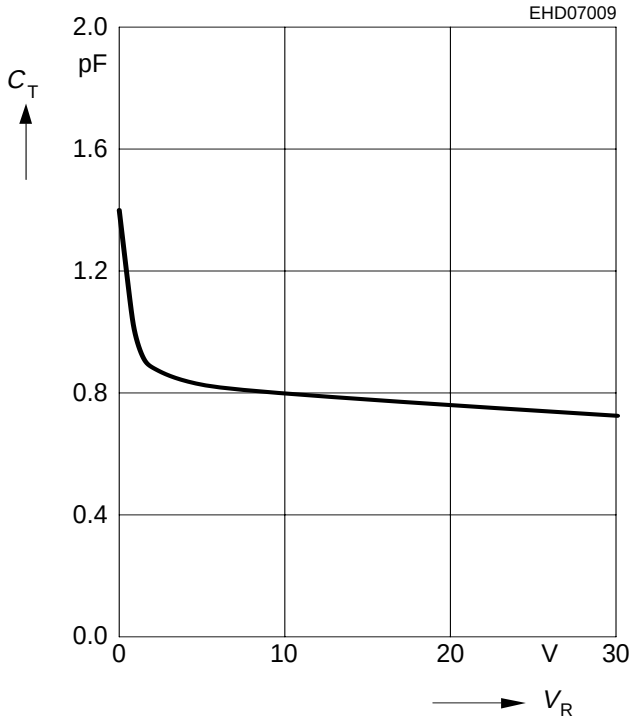
1) Package mounted on alumina 15mm x 16.7mm x 0.7mm

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

| Parameter | Symbol | Values | | | Unit |
|---|---|---|---|---|---|
| | | min. | typ. | max. | |
| **DC characteristics** | | | | | |
| Reverse current<br>$V_R$ = 20 V | $I_R$ | - | - | 20 | µA |
| Forward voltage<br>$I_F$ = 100 mA | $V_F$ | - | - | 1 | V |
| **AC characteristics** | | | | | |
| Diode capacitance | $C_T$ | | | | pF |
| $V_R$ = 1 V, $f$ = 1 MHz | | 0.65 | 0.92 | 1.3 | |
| $V_R$ = 3 V, $f$ = 1 MHz | | 0.6 | 0.85 | 1.1 | |
| Forward resistance | $r_f$ | | | | Ω |
| $I_F$ = 3 mA, $f$ = 100 MHz | | - | 0.45 | 0.7 | |
| $I_F$ = 10 mA, $f$ = 100 MHz | | - | 0.36 | 0.5 | |
| Reverse resistance<br>$V_R$ = 1 V, $f$ = 100 MHz | $1/g_p$ | - | 100 | - | kΩ |
| Series inductance | $L_s$ | - | 0.6 | - | nH |

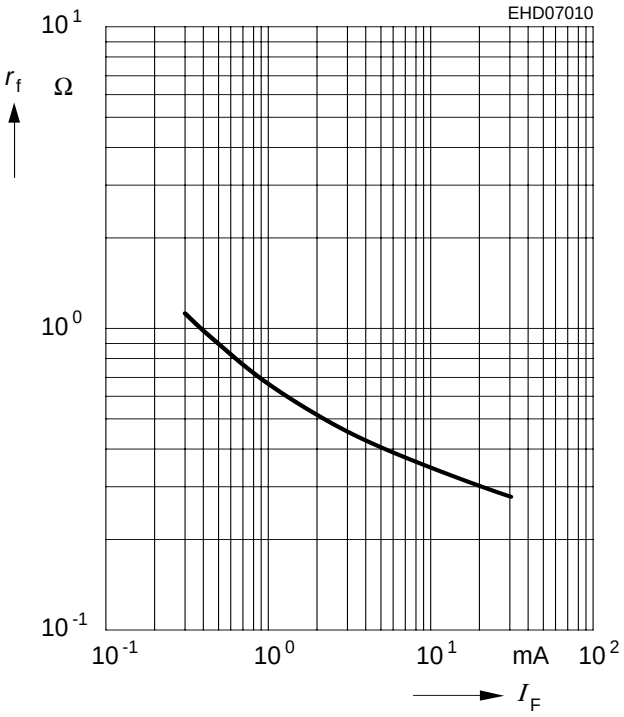
**Diode capacitance** $C_T = f(V_R)$

$f$ = 1MHz




**Forward resistance** $r_f = f(I_F)$

$f$ = 100MHz




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

$T_A$ = 25°C

