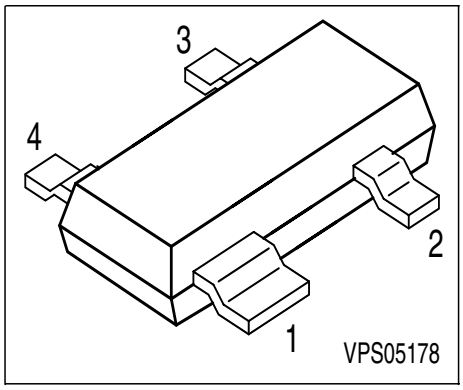
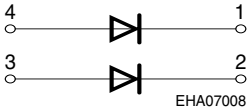
**Silicon Schottky Diodes**

- For low-loss, fast-recovery, meter protection, bias isolation and clamping applications
- Integrated diffused guard ring
- Low forward voltage




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

| Type | Marking | Pin Configuration | | | | Package |
|---|---|---|---|---|---|---|
| BAS 125-07 | 17s | 1 = C1 | 2 = C2 | 3 = A2 | 4 = A1 | SOT-143 |

**Maximum Ratings**

| Parameter | Symbol | Value | Unit |
|---|---|---|---|
| Diode reverse voltage | $V_R$ | 25 | V |
| Forward current | $I_F$ | 100 | mA |
| Surge forward current (t< 100µs) | $I_{FSM}$ | 500 | |
| Total power dissipation, $T_S$ = 25 °C | $P_{tot}$ | 250 | mW |
| Junction temperature | $T_j$ | 150 | °C |
| Storage temperature | $T_{stg}$ | -55 ... 150 | |

**Maximum Ratings**

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

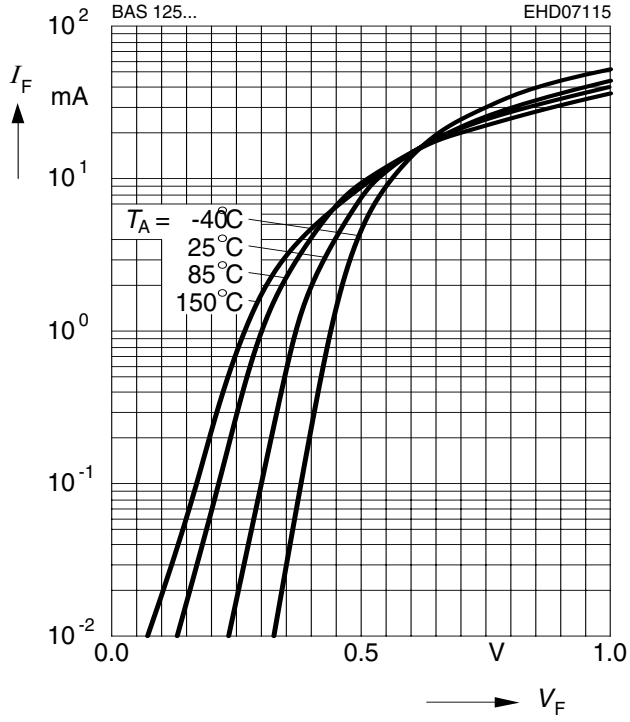
1) Package mounted on alumina 15mm x 16.7mm x 0.7mm

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

| Parameter | Symbol | Values | | | Unit |
|---|---|---|---|---|---|
| | | min. | typ. | max. | |
| **DC characteristics** | | | | | |
| Reverse current | $I_R$ | | | | µA |
| $V_R$ = 20 V | | - | - | 100 | |
| $V_R$ = 25 V | | - | - | 150 | |
| Forward voltage | $V_F$ | | | | mV |
| $I_F$ = 1 mA | | - | 385 | 400 | |
| $I_F$ = 10 mA | | - | 530 | 650 | |
| $I_F$ = 35 mA | | - | 800 | 950 | |
| **AC characteristics** | | | | | |
| Diode capacitance<br>$V_R$ = 0 V, $f$ = 1 MHz | $C_T$ | - | - | 1.1 | pF |
| Differential forward resistance<br>$I_F$ = 5 mA, $f$ = 10 kHz | $r_f$ | - | 16 | - | Ω |

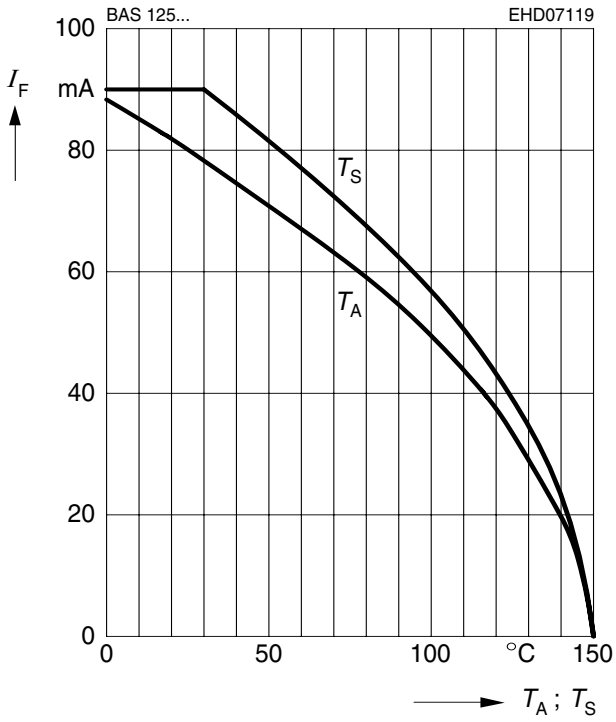
**Forward current** $I_F = f(V_F)$

$T_A$ = Parameter



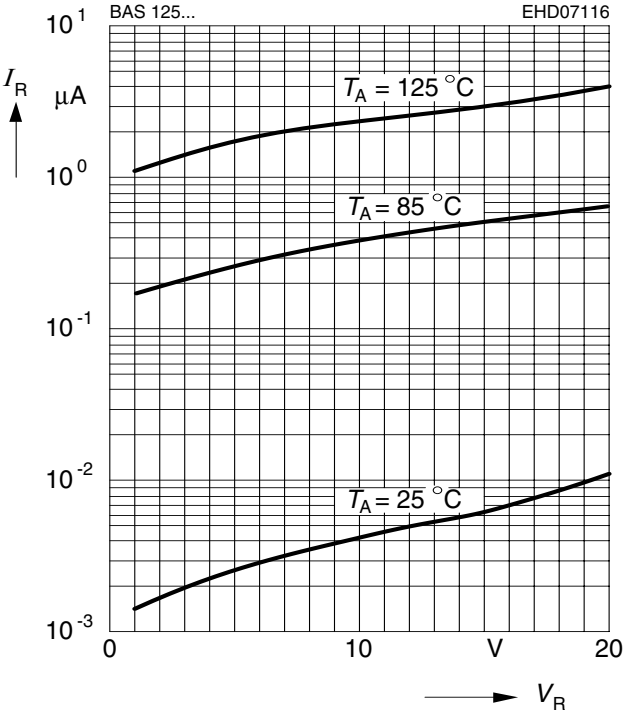

**Forward current** $I_F = f(T_A^*; T_S)$

* Package mounted on alumina



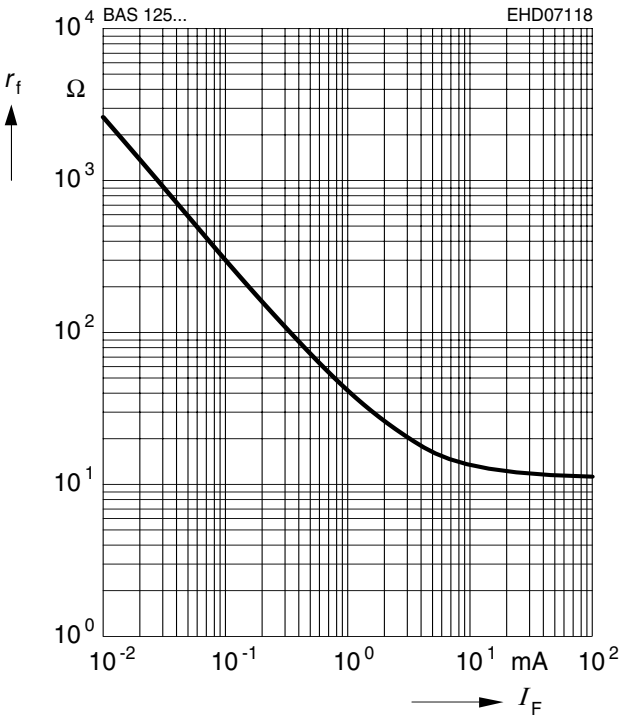

**Reverse current** $I_R = f(V_R)$

$T_A$ = Parameter



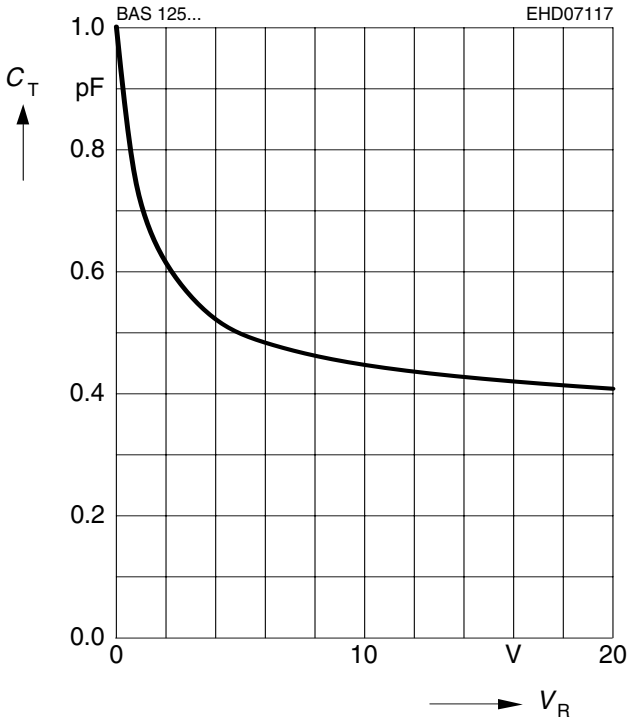

**Differential forward resistance** $r_f = f(I_F)$

$f$ = 10 kHz



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

$f$ = 1MHz



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