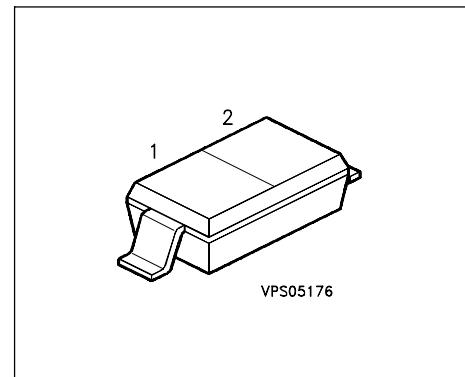


**Silicon Schottky Diode****Preliminary data**

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



Type	Marking	Ordering Code	Pin Configuration		Package
BAT 68-03W	K	Q62702-A1046	1 = A	2 = K	SOD-323

**Maximum Ratings**

Parameter	Symbol	Values	Unit
Diode reverse voltage	$V_R$	8	V
Forward current	$I_F$	130	mA
Total Power dissipation	$P_{tot}$		mW
$T_S = 95^\circ\text{C}$		150	
Junction temperature	$T_j$	150	$^\circ\text{C}$
Operating temperature range	$T_{op}$	- 65 ... + 150	
Storage temperature	$T_{stg}$	- 65 ... + 150	

**Thermal Resistance**

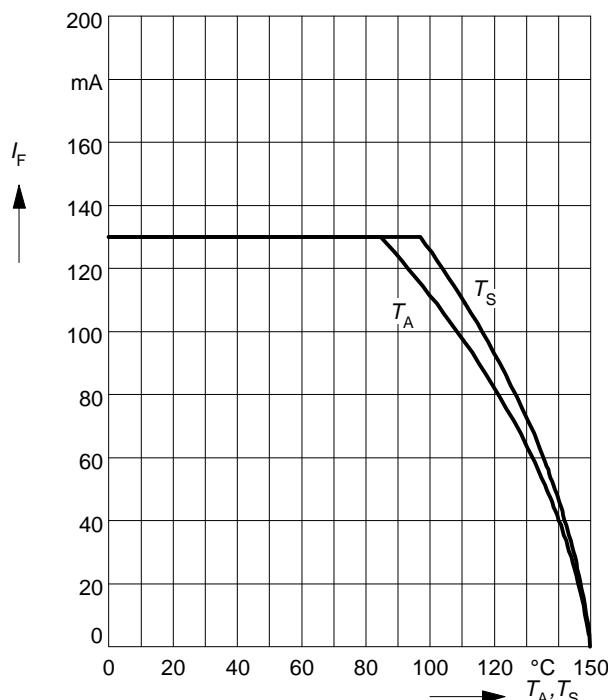
Junction ambient <sup>1)</sup>	$R_{thJA}$	445	K/W
Junction - soldering point	$R_{thJS}$	365	

**Electrical Characteristics** at  $T_A=25^\circ\text{C}$ , unless otherwise specified

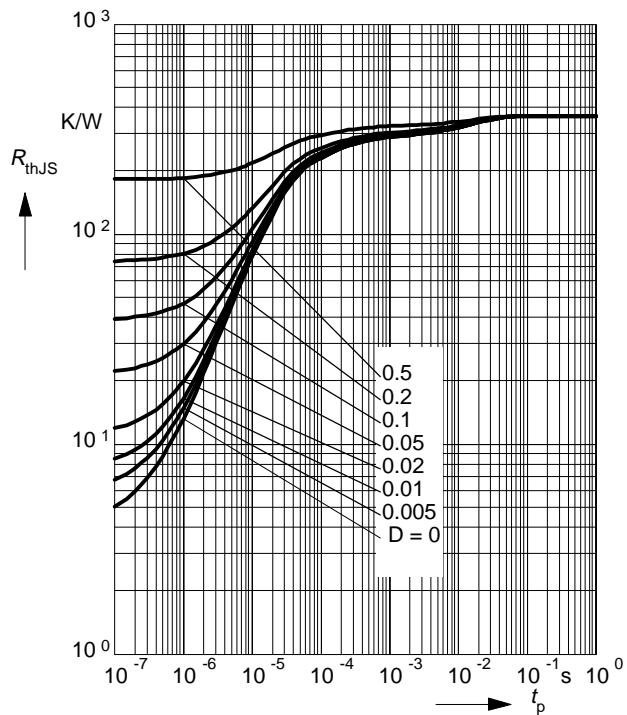
Parameter	Symbol	Values			Unit
		min.	typ.	max.	
<b>DC characteristics</b>					
Breakdown voltage $I_{(\text{BR})} = 10 \mu\text{A}$	$V_{(\text{BR})}$	8	-	-	V
Reverse current $V_R = 1 \text{ V}, T_A = 25^\circ\text{C}$ $V_R = 1 \text{ V}, T_A = 60^\circ\text{C}$	$I_R$	-	-	0.1 1.2	$\mu\text{A}$
Forward voltage $I_F = 1 \text{ mA}$ $I_F = 10 \text{ mA}$	$V_F$	-	318 390	340 500	mV
Diode capacitance $V_R = 0, f = 1 \text{ MHz}$	$C_T$	-	-	1	pF
Differential forward resistance $I_F = 5 \text{ mA}$	$R_F$	-	-	10	$\Omega$

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

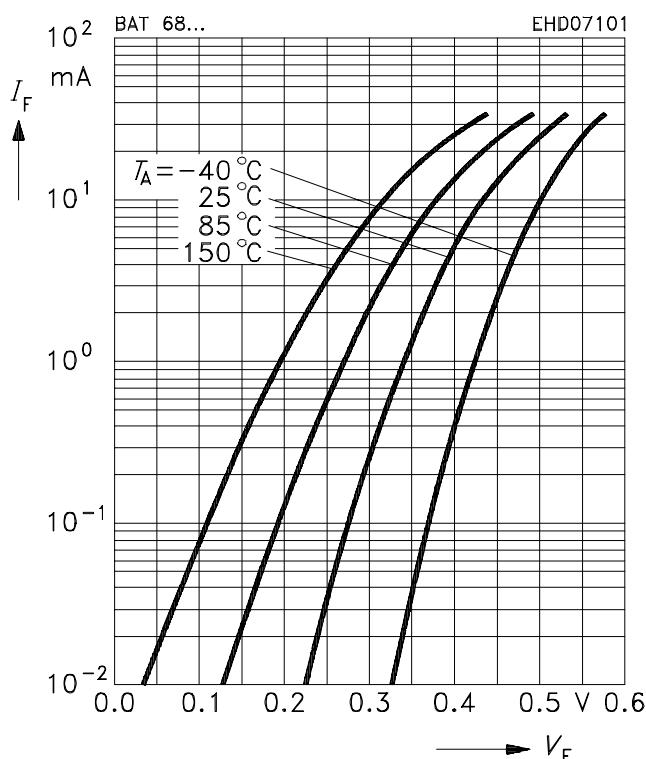
\*): mounted on alumina 15mm x 16.7mm x 0.7mm



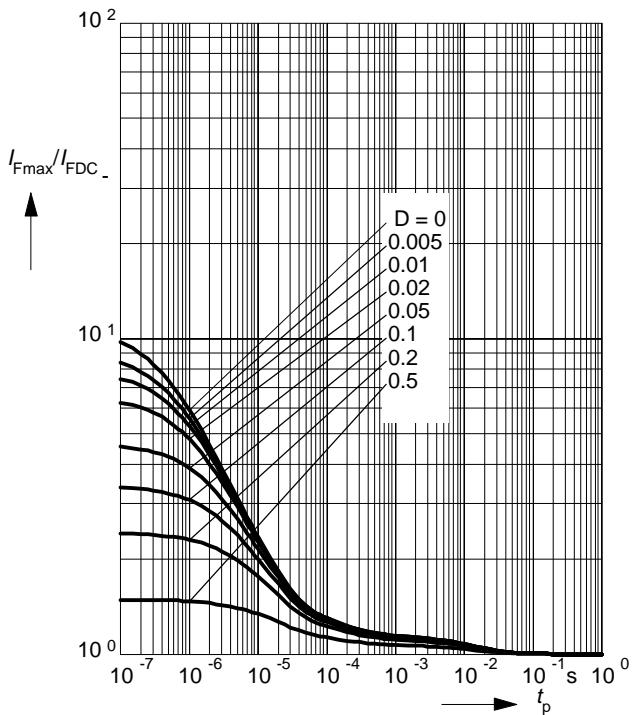
**Permissible Pulse Load**  $R_{\text{THJS}} = f(t_p)$



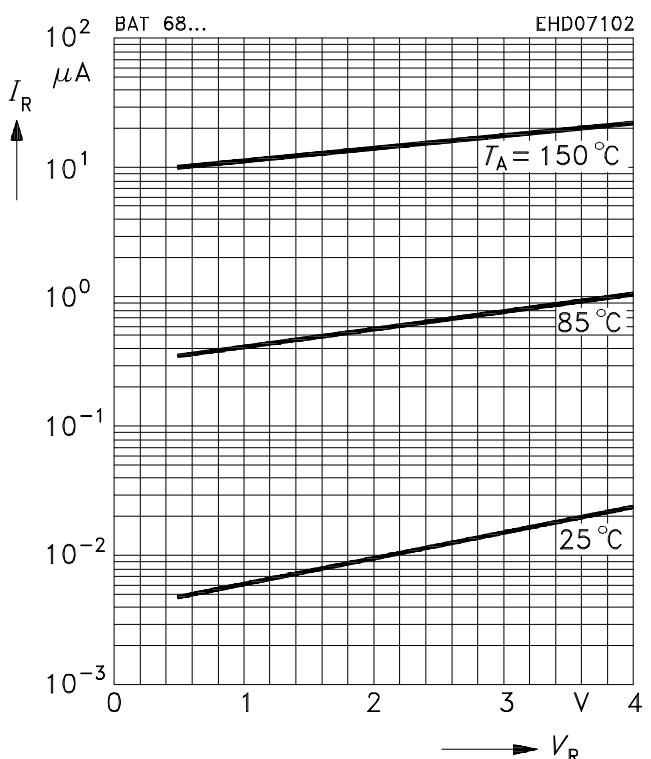
**Forward Current**  $I_F = f(V_F)$



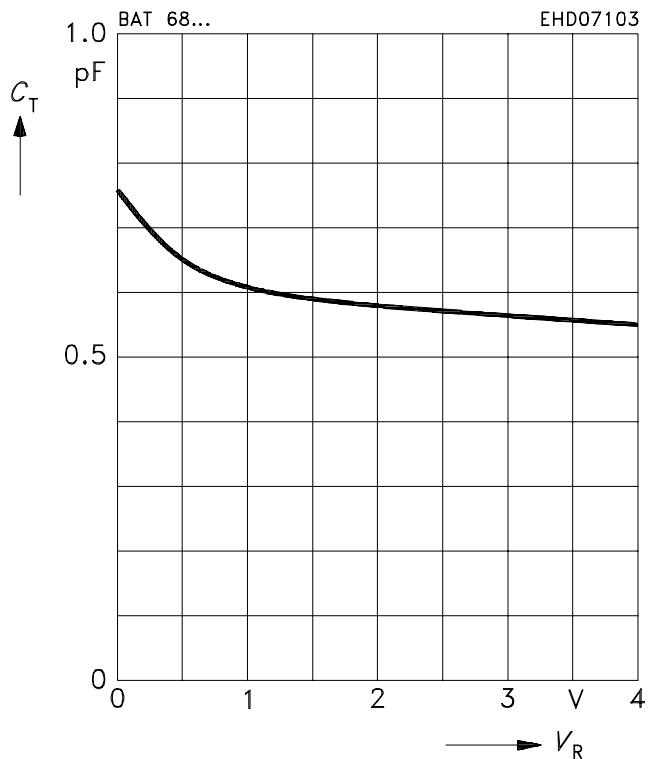
**Permissible Pulse Load**  $I_{\text{Fmax}}/I_{\text{FDC}} = f(t_p)$



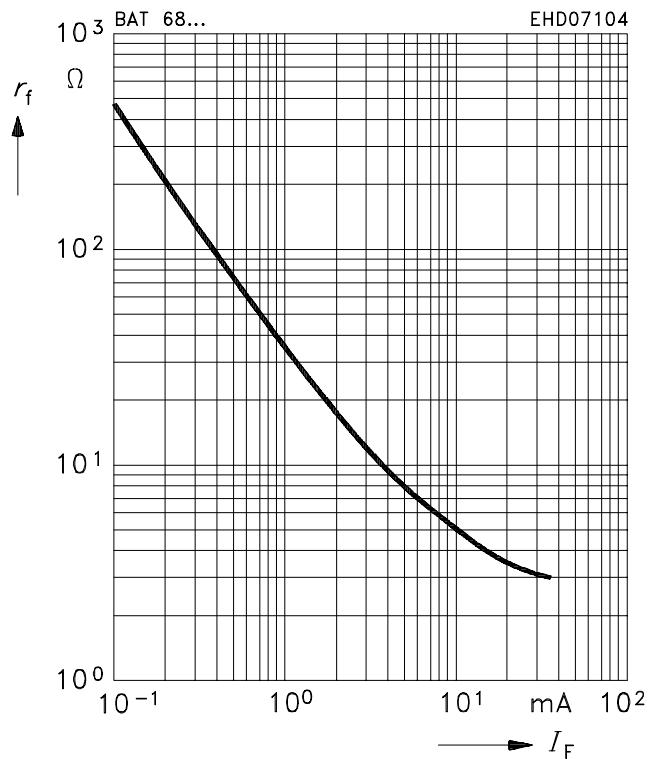
**Reverse current**  $I_R = f(T_A)$



**Diode capacitance**  $C_T = f(V_R)$   
 $f = 1\text{MHz}$



**Differential forward resistance**  $r_f = f(I_F)$   
 $f = 10\text{kHz}$



**Package**