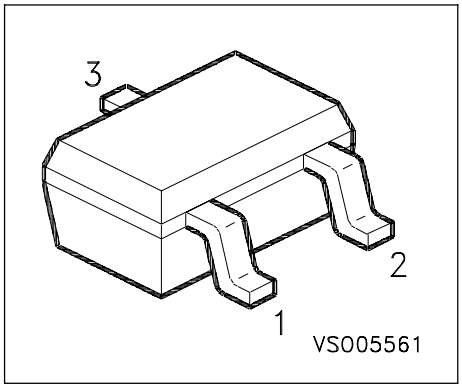
PNP Silicon RF Transistor
kein Status

- For oscillators, mixer and self-oscillating mixer stages in UHF TV-tuner



Type	Marking	Ordering Code	Pin Configuration			Package
BF 569W	LHs	Q62702-F1582	1 = B	2 = E	3 = C	SOT-323

Maximum Ratings

Parameter	Symbol	Values	Unit
Collector-emitter voltage	V_{CEO}	35	V
Collector-base voltage	V_{CBO}	40	
Emitter-base voltage	V_{EBO}	3	
Collector current	I_C	30	mA
Base current	I_B	5	
Total power dissipation $T_S \leq 93$ °C	P_{tot}	280	mW
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	- 65 ... + 150	

Thermal Resistance

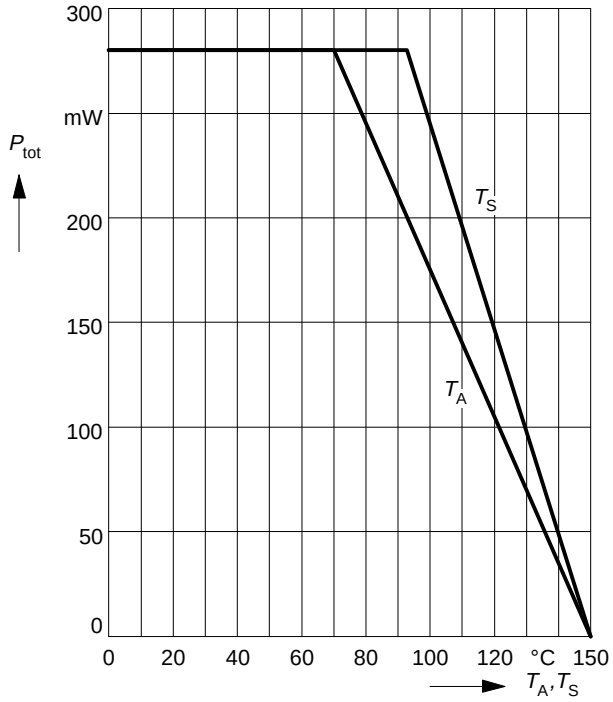
Junction - soldering point	R_{thJS}	≤ 205	K/W

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

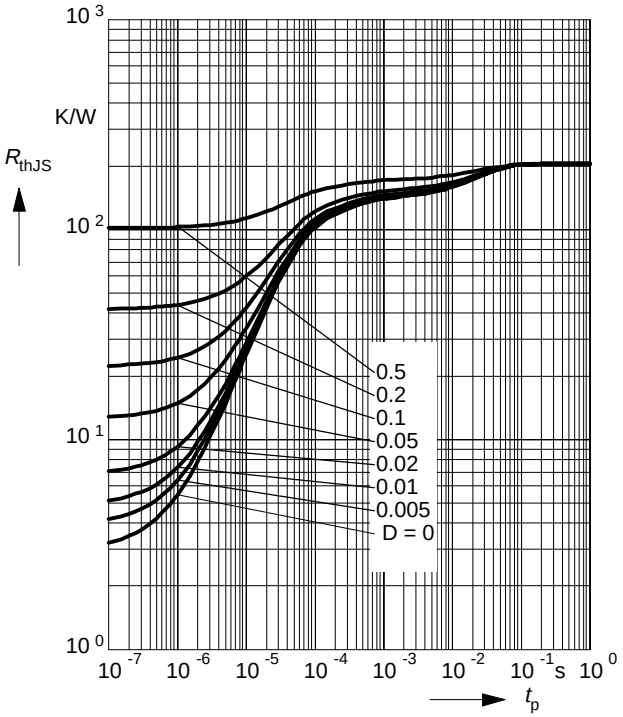
Parameter	Symbol	Values			Unit
		min.	typ.	max.	
DC Characteristics					
Collector-emitter breakdown voltage I_C = 1 mA, I_B = 0	$V_{(BR)CEO}$	35	-	-	V
Collector-base cutoff current V_{CB} = 20 , I_E = 0	I_{CBO}	-	-	100	nA
DC current gain I_C = 3 mA, V_{CE} = 10 V	h_{FE}	20	50	-	-
AC Characteristics					
Transition frequency I_C = 30 mA, V_{CE} = 10 V, f = 100 MHz	f_T	-	950	-	MHz
Collector-base capacitance V_{CB} = 10 V, V_{BE} = v_{be} = 0 , f = 1 MHz	C_{cb}	-	0.32	-	pF
Collector-emitter capacitance V_{CE} = 10 V, V_{BE} = v_{be} = 0 , f = 1 MHz	C_{ce}	-	0.15	-	
Noise figure I_C = 3 mA, V_{CE} = 10 V, f = 800 MHz Z_S = 60 Ω	F	-	4.5	-	dB
Cannon-base power gain I_C = 3 mA, V_{CB} = 10 V, f = 800 MHz R_L = 500 Ω	G_p	-	14.8	-	

Total power dissipation $P_{tot} = f(T_A^*, T_S)$

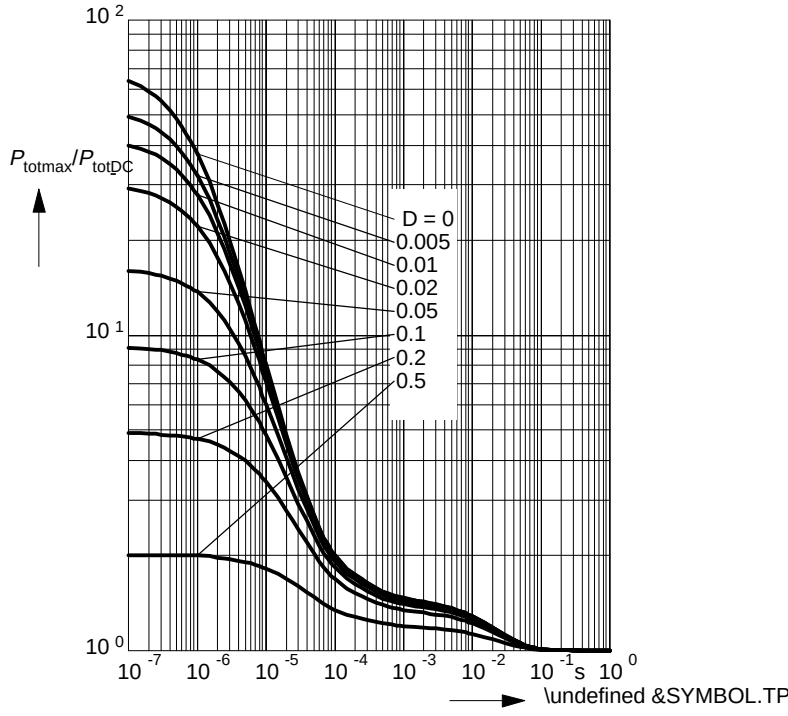
* Package mounted on epoxy



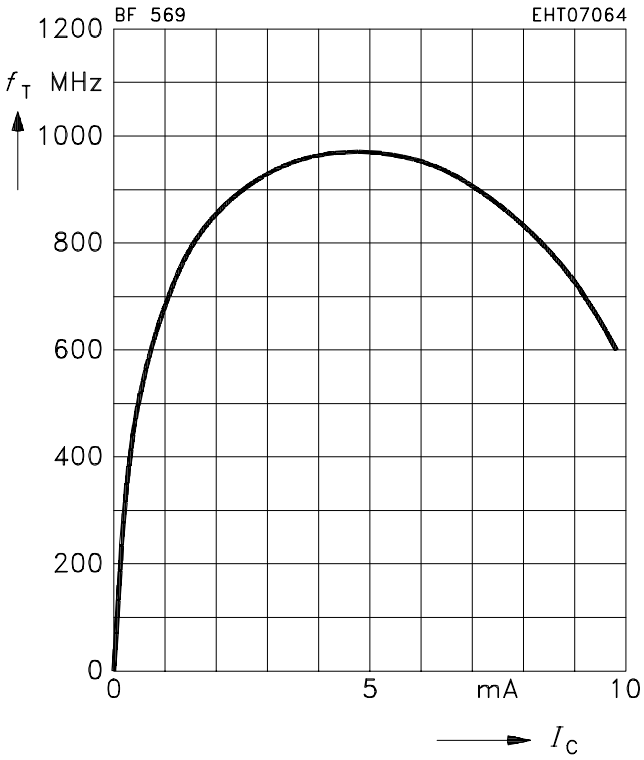
Permissible Pulse Load $R_{thJS} = f(t_p)$



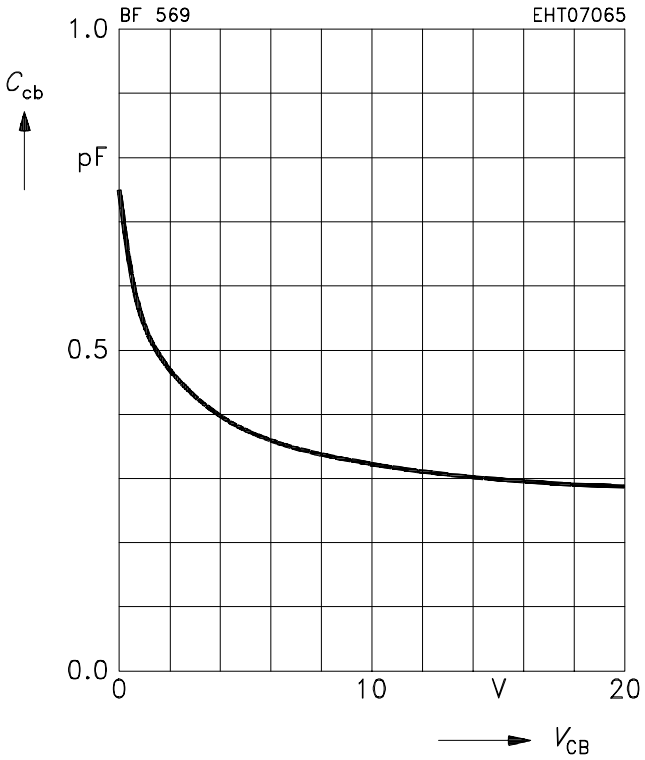
Permissible Pulse Load $P_{totmax}/P_{totDC} = f(t_p)$



Transition frequency $f_T = f(I_C)$
f = 100MHz
V_{CE} = 10V



Collector-base capacitance $C_{cb} = f(V_{CB})$
$V_{BE} = v_{be} = 0$, f = 1MHz



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