

NPN Silicon RF Transistors

BF 362

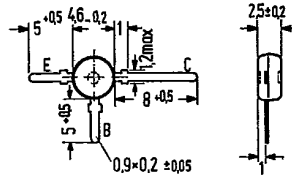
BF 363

SIEMENS AKTIENGESELLSCHAFT

for UHF TV tuners

BF 362 and BF 363 are NPN silicon planar RF transistors in a plastic package similar to TO 119 (50 B3 DIN 41867). BF 362 is particularly suitable for gain-controlled input stages, and BF 363 for self-oscillating mixer stages in TV UHF tuners.

Type	Ordering code
BF 362	Q62702-F395
BF 363	Q62702-F396



Approx. weight 0.25 g Dimensions in mm

Maximum ratings

Collector-emitter voltage
 Collector-base voltage
 Emitter-base voltage
 Collector current
 Junction temperature
 Storage temperature range
 Total power dissipation ($T_{amb} \leq 55^\circ\text{C}$)

	BF 362, BF 363	
V_{CEO}	20	V
V_{CBO}	20	V
V_{EBO}	3	V
I_C	20	mA
T_j	125	$^\circ\text{C}$
T_{stg}	-55 to +125	$^\circ\text{C}$
P_{tot}	120	mW

Thermal resistance

Junction to ambient air

R_{thJA}	≤ 580	K/W
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Static characteristics ($T_{amb} = 25^\circ\text{C}$)

Base current
 ($I_E = 3 \text{ mA}; V_{CB} = 10 \text{ V}$)
 Base current
 ($I_E = 12 \text{ mA}; V_{CB} = 7 \text{ V}$)
 Base-emitter forward voltage
 ($I_C = 2 \text{ mA}; V_{CE} = 10 \text{ V}$)

I_B	< 150	μA
I_B	< 1	mA
V_{BE}	750	mV

T-31-15

BF 362
 BF 363

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Dynamic characteristics ($T_{amb} = 25^{\circ}\text{C}$)		BF 362	BF 363		
Transition frequency ($I_C = 3 \text{ mA}; V_{CE} = 10 \text{ V}; f = 100 \text{ MHz}$)		f_T	800	600-820	MHz
Power gain ($I_C = 3 \text{ mA}; V_{CB} = 10 \text{ V}; f = 900 \text{ MHz}; R_g = 50 \Omega; R_L = 500 \Omega$)		G_p	> 11	> 11	dB
Noise figure ($I_C = 3 \text{ mA}; V_{CB} = 10 \text{ V}$) at $f = 500 \text{ MHz}; Y_g = 16.7 \text{ mS}$		NF	4	4	dB
at $f = 800 \text{ MHz}; Y_g = 16.7 \text{ mS}$		NF	4.5	5	dB
Short-circuit reverse transfer capacitance ($I_C = 1 \text{ mA}; V_{CE} = 10 \text{ V}; f = 1 \text{ MHz}$)		$-C_{12e}$	0.33	0.33	pF
Small-signal short-circuit reverse transfer admittance ($I_C = 3 \text{ mA}; V_{CB} = 10 \text{ V}; f = 900 \text{ MHz}$)		$ y_{12b} $	0.95	0.95	mS



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