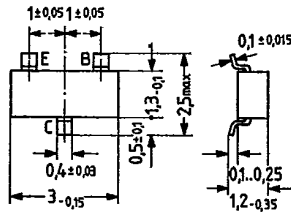


SIEMENS AKTIENGESELLSCHAFT 539 D \_\_\_\_\_

BF 767 is a PNP silicon planar transistor including passivated surface in TO 236 plastic package (23 A 3 DIN 41869). The transistor is particularly suitable for use in low-noise, gain-controlled VHF and UHF input stages for film circuits. The transistor is marked on its package with the code letters "LG".

Type	Mark	Ordering code
BF 767	LG	Q62702-F553



Approx. weight 0.02 g Dimensions in mm

**Maximum ratings**

Collector-emitter voltage	$-V_{CEO}$	30	V
Collector-base voltage	$-V_{CBO}$	30	V
Emitter-base voltage	$-V_{EBO}$	3	V
Collector current	$-I_C$	20	mA
Base current	$-I_B$	5	mA
Junction temperature	$T_j$	125	°C
Storage temperature range	$T_{stg}$	-55 to +125	°C
Total power dissipation ( $T_{SB} = 65^\circ\text{C}$ )	$P_{tot}$	200	mW

**Thermal resistance**

Junction to ambient air	$R_{thJA}$	< 500	K/W
Junction to substrate back <sup>1)</sup>	$R_{thJSB}$	< 400	K/W

1) Ceramic substrate 0.7 mm; 2.5 cm<sup>2</sup> area

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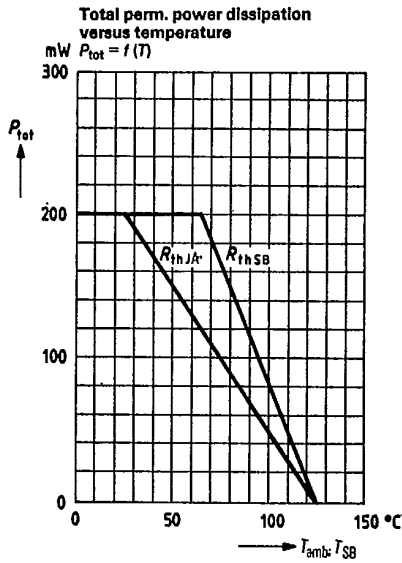
Static characteristics ( $T_{amb} = 25^{\circ}\text{C}$ )

Collector cutoff current ( $-V_{CBO} = 15\text{ V}$ )	$-I_{CBO}$	<100	nA
DC current gain ( $-V_{CE} = 10\text{ V}; -I_C = 3\text{ mA}$ )	$h_{FE}$	60 (>15)	-
Emitter cutoff current ( $-I_C = 0; -V_{EB} = 3\text{ V}$ )	$-I_{EBO}$	<10	$\mu\text{A}$

Dynamic characteristics ( $T_{amb} = 25^{\circ}\text{C}$ )

Transition frequency ( $-I_C = 3\text{ mA}; -V_{CE} = 10\text{ V}; f = 100\text{ MHz}$ )	$f_T$	950	MHz
Collector-base capacitance ( $-V_{CB} = 10\text{ V}; f = 1\text{ MHz}$ )	$C_{CBO}$	0.32	pF
Power gain ( $-I_C = 3\text{ mA}; -V_{CB} = 10\text{ V}; f = 800\text{ MHz}; R_L = 500\ \Omega$ )	$G_{pb}$	13	dB
Collector current <sup>1)</sup> ( $f = 800\text{ MHz}; V_{CC} = 12\text{ V}; R_C = 1\text{ k}\Omega; R_g = 60\ \Omega; R_L = 500\ \Omega$ )	$I_C$	7	mA
Noise figure ( $-I_C = 3\text{ mA}; -V_{CB} = 10\text{ V}; R_g = 60\ \Omega; f = 800\text{ MHz}$ )	NF	3.7	dB
( $f = 200\text{ MHz}$ )	NF	2.9	dB

for 30 dB regulation to minor values



This datasheet has been download from:

[www.datasheetcatalog.com](http://www.datasheetcatalog.com)

Datasheets for electronics components.