

HIGH FREQUENCY SMD TRANSISTORS

DESCRIPTION

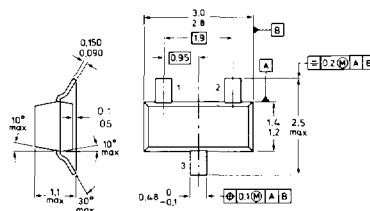
■ Philips Components high-frequency transistors fill the gap between general purpose transistors and broadband transistors by offering transition frequencies from a few hundred megahertz to about 1 gigahertz. Applications include IF preamplifiers, oscillators for VHF/UHF tuners, and RF stages for FM front ends.

FEATURES

- Typical feedback capacitances as low as 0.1 pF
- Transition frequencies up to 1.3 GHz
- Typical noise figures from 2-4.5 dB
- Complementary NPN and PNP devices

MECHANICAL DATA

(Dimensions in mm)



SOT-23 TOP VIEW

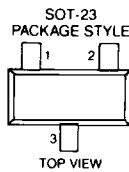


HIGH FREQUENCY SMD TRANSISTORS

ELECTRICAL SPECIFICATIONS

TYPE	PACKAGE	RATINGS			hFE		NF		f _T	C _{re}	PINOUT
		V _{CEO} V	V _{CBO} V	I _C mA	min./max. at I _C /V _{CE} mA/V		typ. at I _C mA		typ. MHz	typ. pF	
NPN											
BFS18	SOT-23	20	30	30	35/125	1/10	4	1	200	0.85	F
BFS19	SOT-23	20	30	30	65/225	1/10	4	1	260	0.85	F
BFS20	SOT-23	20	30	25	40/-	7/10	-	-	450	0.35	F
BF840	SOT-23	40	40	25	-	-	1.5	1	380	0.3	F
BF841	SOT-23	40	40	25	-	-	2.0	1	380	0.3	F
PNP											
BF579	SOT-23	20	20	25	20/-	10/10	4.5	10	1350	0.46	F
BF536	SOT-23	30	30	25	25/-	1/10	5	1	350	-	F
BF767	SOT-23	30	30	20	15/-	3/10	4	3	900	0.3	F
BF824	SOT-23	30	30	25	-	-	3	2	440	0.1	F
BF660	SOT-23	30	40	25	30/-	3/10	-	-	650	0.65	F
BF569	SOT-23	35	40	30	25/-	3/10	4.5	3	900	0.33	F
BF550	SOT-23	40	40	25	50/-	1/10	2	1	325	0.5	F

PINOUT DIAGRAM



PINOUT F: SOT-23 PIN 1 PIN 2 PIN3
 E B C

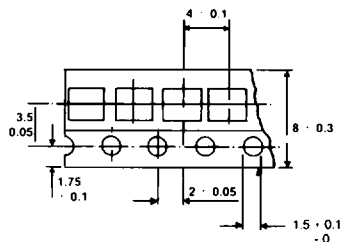
MARKING CODES

Type No.	Code	Type No.	Code	Type No.	Code	Type No.	Code
BF536	G3	BF579	LJ	BF824	F8	BFS18	F1
BF550	LA	BF660	LE	BF840	NC	BFS19	F2
BF569	LH	BF767	G9	BF841	ND	BFS20	G1

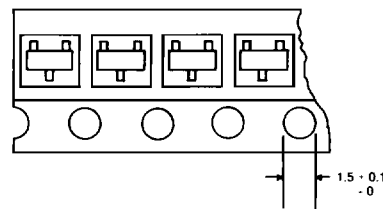
TAPE AND REEL SPECIFICATIONS

(Dimensions in mm)

SM Package	Devices per reel	Reel Size (in)	Tape Width (mm)	Ordering Suffix
SOT-23	3K	7	8	TRL
	10K	13	8	TRL 13



SOT-23
TAPE DIMENSIONS



SOT-23
ORIENTATION