

## RF/Microwave Devices

### RF Wideband Transistors (cont.)

Type No.	Polarity	Package Outline	$f_T/I_C^*$ Curve No.	Ratings			Characteristics				
				$V_{CE0}$ (V)	$I_C$ (mA)	$P_{tot}$ (mW)	$f_T$ (GHz)	NF (dB)	@ f (MHz)	$G_{UM}$ (dB)	@ f (MHz)
BFS25A	NPN	SOT-323	(19)	5	6.5	32	5	—	—	—	—
BFS505	NPN	SOT-323	(21)	15	18	150	9	—	—	—	—
BFS520	NPN	SOT-323	(22)	15	70	300	9	—	—	—	—
BFS540	NPN	SOT-323	(23)	15	120	350	9	—	—	—	—
BFT24	NPN	SOT-37	(1)	5	2.5	30	2.3	3.8	500	17	500
BFT25	NPN	SOT-23	(1)	5	6.5	50	2.3	3.8	500	18	500
BFT25A	NPN	SOT-23	(19)	5	6.5	50	5	1.8	2000	—	—
BFT92	PNP	SOT-23	(7)	15	25	200	5	2.7	500	18	500
BFT92AW	PNP	SOT-323	(7)	15	35	300	5	2.5	500	18	500
BFT93	PNP	SOT-23	(9)	12	35	200	5	2.4	500	16.5	500
BFT93AW	PNP	SOT-323	(9)	12	50	300	5	2.4	500	16.5	500
BFW16A	NPN	TO-39	(5)	25	150	1500	1.2	<6	200	16(Gp)	200
BFW17A	NPN	TO-39	(5)	25	150	1500	1.1	—	—	16(Gp)	200
BFW30	NPN	TO-72	(4)	10	50	250	1.6	<5	500	21	200
BFW92	NPN	SOT-37	(2)	15	25	190	1.6	4	500	23(Gp)	200
BFW92A	NPN	SOT-37	(3)	15	25	200	2.8	2.5	800	13	800
BFW93	NPN	SOT-37	(4)	10	50	190	1.7	<5	500	22	200
BFY90	NPN	TO-72	(2)	15	25	200	1.4	2.5	200	23(Gp)	200

\* See page 51 for  $f_T/I_C$  curves chart.

IV

### Video Transistors

Philips has a powerful range of CRT driver transistors for video output amplifier applications in monitors and HDTV.

Selection Guide						
Application	Package					
	TO-92	TO-39	TO-126	TO-202	SOT172	SOT223
<b>For Monitors</b>						
npn cascode driver	BFQ161	BFQ163	BFQ162			BFQ166
npn low-current cascode output ( $I_{CM} = 300$ mA)			BFQ232 BFQ232A	BFQ235 BFQ235A	BFQ234(/I)	
non high-current cascode output ( $I_{CM} = 400$ mA)		BFQ263 BFQ263A	BFQ262 BFQ262A	BFQ265 BFQ265A	BFQ268(/I)	
npn buffer	BFQ231 BFQ231A	BFQ233 BFQ233A	BFQ232 BFQ232A	BFQ235 BFQ235A	BFQ234(/I)	BFQ236 BFQ236A
pnnp buffer	BFQ251 BFQ251A	BFQ253 BFQ253A	BFQ252 BFQ252A	BFQ255 BFQ255A	BFQ254(/I)	BFQ256 BFQ256A
<b>For HDTV</b>						
npn cascode output					BFQ291	
pnnp cascode output					BFQ290	
npn buffer			BFQ293	BFQ296		
pnnp buffer			BFQ292	BFQ295	BFQ290	