

DISCRETE SEMICONDUCTORS

Wideband transistors

RF & MICROWAVE

SEMICONDUCTORS & MODULES

FIRST-GENERATION NPN WIDEBAND TRANSISTORS (f_T up to 3.5 GHz)

	f_T/I_C curve see chart		package			
	plastic, leaded		surface-mount			
	SOT54 (TO92)	SOT23	SOT89	SOT143	SOT223	SOT323
(1)		BFT25				
(2)		BF747 BF547				BF547W
(3)	BF689K BF763	BFS17				BFS17W
(4)		BFS17A		BFG17A		
(5)		BFR53				
(6)			BFQ17		BFG16A	

FIRST-GENERATION NPN WIDEBAND TRANSISTORS (f_T up to 3.5 GHz) *continued*

type number	ratings			typical characteristics						
	V_{CE0} (V)	I_C (mA)	P_{tot} (mW)	f_T (GHz)	F (dB)	@ (MHz)	f (MHz)	G_{UM} (dB)	@ (MHz)	package
BF547	20	50	300	1.2	-	-	-	20	100	SOT23
BF547W	20	50	300	1.2	-	-	-	20	100	SOT323
BF689K	15	25	360	1.8	3	200	200	16	200	TO-92
BF747	20	50	300	1.2	-	-	100	20	100	SOT23
BF763	25	25	360	1.8	-	800	800	13	800	TO-92
BFG16A	25	150	1000	1.5	-	-	500	10	500	SOT223
BFG17A	15	50	300	2.8	2.5	800	800	15	800	SOT143
BFQ17	25	150	1000	1.5	-	-	200	16 (6.5)	200.(800)	SOT89
BFR53	10	50	250	2.0	5	500	500	22 (10.5)	200.(800)	SOT23
BFR94A	25	150	3500	3.5	5	500	500	13.5	500	SOT122E
BFR95	25	150	1500	3.5	9	200	200	13.5	500	TO-39
BFS17	15	25	300	1.6	4.5	500	500	-	-	SOT23
BFS17A	15	25	300	2.8	2.5	800	800	13.5	800	SOT23
BFS17W	15	50	300	1.6	-	-	-	-	-	SOT323
BFT25	5	6.5	30	2.3	3.8	500	500	18	500	SOT23
BFW16A	25	300	1500	1.2	<6	200	200	16 ¹⁾ (6.5 ¹⁾)	200	TO-39
BFW30	10	100	250	1.6	<5	500	500	21 (7.5)	200	TO-72
BFY90	15	50	200	1.4	2.5 (5.5)	200.(800)	200.(800)	23 ¹⁾ (8 ¹⁾)	200.(800)	TO-72

¹⁾ G_p
values in parentheses are measured at 800 MHz