

RF & MICROWAVE SEMICONDUCTORS & MODULES

DISCRETE SEMICONDUCTORS Wideband transistors

SECOND-GENERATION WIDEBAND TRANSISTORS (f_T up to 6 GHz)

f_T/I_C curve see chart	pol.	package							
		ceramic				surface-mount			
		SOT122	SOT173	SOT23	SOT89	SOT143	SOT223	SOT323	SOT343
(7)	nnp pnp			BFR92(A) BFT92		BFG92A(X)/(XR)		BFR92AW BFT92W	BFG92AW(X)/(XR)
(8)	nnp		BFP91A	BFR93(A)		BFG93A(X)/(XR)	BFG94	BFR93AW	BFG93AW(X)/(XR)
(9)	pnp			BFT93				BFT93W	
(10)	nnp pnp		BFP96	BFR106	BFQ19 BFQ149			BFG97 BFG31	
(11)	nnp				BFQ18A			BFG35	
(11)	nnp	BFQ34							
(12)	nnp	BFQ68							
(13)	nnp	BFQ136							

SECOND-GENERATION WIDEBAND TRANSISTORS (f_T up to 6 GHz) *continued*

type number	polarity	ratings			typical characteristics							package
		V_{CE0} (V)	I_C (mA)	P_{tot} (mW)	f_T (GHz)	linear ¹⁾ V_{out} (mV)	F (dB)	@ (MHz)	f (MHz)	G_{UM} (dB)	@ (MHz)	
BFG31	pnp	15	100	1000	5	600	-	-	12	800	SOT223	
BFG35	nnp	18	150	1000	4	750	-	-	11	800	SOT223	
BFG92A	nnp	15	25	400	5	-	2.1	1000	17	1000	SOT143	
BFG92A/X	nnp	15	25	400	5	-	2.4	800	17.5	800	SOT143	
BFG92A/XR	nnp	15	25	400	5	-	2.4	800	17.5	800	SOT143	
BFG93A	nnp	12	35	300	6	-	1.9	1000	16	1000	SOT143	
BFG93A/X	nnp	12	35	300	6	-	2.3	800	17	800	SOT143	
BFG93A/XR	nnp	12	35	300	6	-	2.3	800	17	800	SOT143	
BFG94	nnp	12	60	700	6	500	3	1000	13.5	1000	SOT223	
BFG97	nnp	15	100	1000	5.5	700	3.7	800	12	800	SOT223	
BFP91A	nnp	12	50	600	6	425	2.3	800	18.5	800	SOT173	
BFP96	nnp	15	100	1000	5	700	3.7	800	15	800	SOT173	
BFQ18A	nnp	18	150	1000	4	700	-	-	-	-	SOT89	
BFQ19	nnp	15	100	1000	5.5	700	3.3	500	11.5	500	SOT89	
BFQ24	pnp	12	35	250	5	300	2.4	500	15	500	TO-72	
BFQ34	nnp	18	150	2700	4	1200	8	500	16.3	500	SOT122	
BFQ52	pnp	15	25	250	5	150	2.7	500	17	500	TO-72	
BFQ53	nnp	15	25	250	5	150	2.1	1000	18	500	TO-72	

¹⁾ at a d_{im} of -60 dB, measured according to DIN45004B par. 6.3: 3-tone test