

# Audio Frequency Small Signal Transistors

TYPE NO.	POLARITY	CASE	MAXIMUM RATINGS			HFE				VCE(SAT)		f <sub>T</sub> min (MHz)	Cob max (pF)	N.F. max (dB)
			P <sub>d</sub> (mW)	I <sub>C</sub> (mA)	V <sub>CEO</sub> (V)	min	max	I <sub>C</sub> (mA)	V <sub>CE</sub> (V)	max (V)	I <sub>C</sub> (mA)			
BC 107	N	TO-18	300	100	45	110	450#	2	5	0.6	100	150	6	10
BC 108	N	TO-18	300	100	20	110	800#	2	5	0.6	100	150-	6	10
BC 109	N	TO-18	300	100	20	200	800#	2	5	0.6	100	150	6	4
BC 113	N	TO-106	200	50	25	200	1000	1	5	0.35	1	60	4	3
BC 114	N	TO-106	200	50	25	200	1000	1	5	0.35	1	70	4	3
BC 132	N	TO-106	200	50	25	60	300	1	10	0.35	1	40	4	-
BC 153	P	TO-106	200	100	40	50	-	10	5	0.25	10	70+	4+	1+
BC 154	P	TO-106	200	100	40	160	-	10	5	0.25	10	70+	4+	2.5
BC 167	N	TO-92B	300	100	45	110	450#	2	5	0.6	100	150	4.5	10
BC 168	N	TO-92B	300	100	20	110	800#	2	5	0.6	100	150	4.5	10
BC 169	N	TO-92B	300	100	20	200	800#	2	5	0.6	100	150	4.5	4
BC 170	N	TO-92F	300	100	20	36	600#	1	1	0.25	1	100+	4+	10
BC 171	N	TO-92F	300	100	45	125	500A#	2	5	0.6	100	150	6	10
BC 172	N	TO-92F	300	100	25	125	900A#	2	5	0.6	100	150	6	10
BC 173	N	TO-92F	300	100	25	125	900A#	2	5	0.6	100	150	6	10
BC 177	P	TO-18	300	100	45	70	450#	2	5	0.3	10	150	7	10
BC 178	P	TO-18	300	100	25	70	800#	2	5	0.3	10	100	7	10
BC 179	P	TO-18	300	100	25	200	800#	2	5	0.3	10	100	7	4
BC 182	N	TO-92F	300	200	50	110	450#	2	5	0.6	100	150	5	10
BC 182L	N	TO-92B	300	200	50	110	450#	2	5	0.6	100	150	5	10
BC 183	N	TO-92F	300	200	30	110	800#	2	5	0.6	100	150	5	10
BC 183L	N	TO-92B	300	200	30	110	800#	2	5	0.6	100	150	5	10
BC 184	N	TO-92F	300	200	30	200	800#	2	5	0.6	100	150	5	4
BC 184L	N	TO-92B	300	200	30	200	800#	2	5	0.6	100	150	5	4
BC 186	P	TO-18	300	100	25	40	200	2	5	0.5	50	50	-	10
BC 204	P	TO-106	300	100	45	70	450#	2	5	0.3	10	100	4	10
BC 205	P	TO-106	300	100	20	70	800#	2	5	0.3	10	100	4	10
BC 206	P	TO-106	300	100	20	200	800#	2	5	0.3	10	100	4	4
BC 207	N	TO-106	300	100	45	110	450#	2	5	0.6	100	150	6	10
BC 208	N	TO-106	300	100	25	110	800#	2	5	0.6	100	150	6	10
BC 209	N	TO-106	300	100	25	200	800#	2	5	0.6	100	150	6	4
BC 212	P	TO-92F	300	200	50	100	400A#	2	5	0.6	100	100	10	10
BC 212L	P	TO-92B	300	200	50	100	400A#	2	5	0.6	100	100	10	10
BC 213	P	TO-92F	300	200	30	100	600A#	2	5	0.6	100	100	10	10
BC 213L	P	TO-92B	300	200	30	100	600A#	2	5	0.6	100	100	10	10
BC 214	P	TO-92F	300	200	30	200	600A#	2	5	0.6	100	150	10	2
BC 214L	P	TO-92B	300	200	30	200	600A#	2	5	0.6	100	150	10	2
BC 225	P	TO-106	200	100	40	90	-	10	5	0.25	10	100	8	-
BC 237	N	TO-92F	300	100	45	110	450#	2	5	0.6	100	150	4.5	10
BC 238	N	TO-92F	300	100	20	110	800#	2	5	0.6	100	150	4.5	10
BC 239	N	TO-92F	300	100	20	200	800#	2	5	0.6	100	150	4.5	4
BC 250	P	TO-92F	300	100	20	35	600#	1	1	0.4+	30	100	6	-
BC 251	P	TO-92F	300	100	45	125	900A#	2	5	0.3	10	80	6	10
BC 252	P	TO-92F	300	100	25	125	900A#	2	5	0.3	10	80	6	10
BC 253	P	TO-92F	300	100	25	125	900A#	2	5	0.3	10	80	6	4
BC 257	P	TO-92B	300	100	45	70	450#	2	5	0.3	10	130	6	10
BC 258	P	TO-92B	300	100	25	70	800#	2	5	0.3	10	130	6	10
BC 259	P	TO-92B	300	100	20	200	800#	2	5	0.3	10	130	6	4
BC 260	P	TO-18	300	100	20	35	600#	1	1	0.4+	30	100	6	-
BC 261	P	TO-18	300	100	45	125	900A#	2	5	0.3	10	100	6	10
BC 262	P	TO-18	300	100	25	125	900A#	2	5	0.3	10	100	6	10
BC 263	P	TO-18	300	100	25	125	900A#	2	5	0.3	10	100	6	4
BC 280	N	TO-18	360	100	40	180	600	1	5	0.7	10	-	2.8+	3
BC 307	P	TO-92F	300	100	45	70	450#	2	5	0.3	10	100	6	10
BC 308	P	TO-92F	300	100	25	70	800#	2	5	0.3	10	100	6	10
BC 309	P	TO-92F	300	100	20	200	800#	2	5	0.3	10	100	6	4

#HFE groupings available ▲h<sub>FE</sub> @ 1 KHz + Typical value

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TYPE NO.	POLARITY	CASE	MAXIMUM RATINGS			HFE				VCE(SAT)		f <sub>T</sub> min (MHz)	Cob max (pF)	N.F. max (dB)
			P <sub>d</sub> (mW)	I <sub>C</sub> (mA)	V <sub>CEO</sub> (V)	min	max	I <sub>C</sub> (mA)	V <sub>CE</sub> (V)	max (V)	I <sub>C</sub> (mA)			
BCW 86	P	TO-92F	300	200	50	150	350	2	5	0.2	10	200	5+	-
BCX 58	N	TO-92F	450	100	32	120	630#	2	5	0.5	100	125	4.5	6
BCX 59	N	TO-92F	450	100	45	120	630#	2	5	0.5	100	125	4.5	6
BCX 78	P	TO-92F	450	100	32	120	630#	2	5	0.6	100	100	4.5	6
BCX 79	P	TO-92F	450	100	45	120	630#	2	5	0.6	100	100	4.5	6
BCY 56	N	TO-18	300	100	45	100	450	2	5	0.6	10	250+	4.5+	5
BCY 57	N	TO-18	300	100	20	200	800	2	5	0.6	10	350+	4.5+	5
BCY 58	N	TO-18	360	200	32	120	630#	2	5	0.35	10	125	6	6
BCY 59	N	TO-18	360	200	45	120	630#	2	5	0.35	10	125	6	6
BCY 66	N	TO-18	360	50	45	180	630#	2	5	0.35	10	125	6	2
BCY 67	P	TO-18	360	50	45	180	630#	2	5	0.25	10	180+	7	2
BCY 69	N	TO-18	300	100	20	450	-	2	5	0.25	10	150	8	5
BCY 70	P	TO-18	300	200	40	50	-	10	1	0.25	10	250	6	6
BCY 71	P	TO-18	350	200	45	100	600	10	1	0.25	10	200	6	2
BCY 72	P	TO-18	350	200	25	50	-	10	1	0.25	10	200	6	6
BCY 78	P	TO-18	350	200	32	120	630#	2	5	0.25	10	100	7	6
BCY 79	P	TO-18	350	200	45	120	460#	2	5	0.25	10	100	7	6
BFW 22	P	TO-18	360	100	45	250	600	1	5	0.4	50	50	6	2
BFX 92	N	TO-18	300	30	45	40	120	0.01	5	-	-	30	8	4
BFX 93	N	TO-18	300	30	45	100	300	0.01	5	-	-	30	8	3
BFY 39	N	TO-18	300	100	25	35	400#	10	10	1	10	150+	5+	-
BFY 76	N	TO-18	360	50	45	140	230	1	5	0.35	1	40	6	4
BFY 77	N	TO-18	360	50	45	200	450	1	5	0.35	1	40	6	3
CS 9011	N	TO-92A	310	100	18	29	280#	1	5	-	-	50	3.5	4.5+
CS 9014	N	TO-92A	310	100	18	60	1000#	1	5	0.5	1	50	3+	3+
CS 9015	P	TO-92A	310	100	18	60	1000#	1	5	0.5	10	50	6+	3+
CX 901	N	TO-92A	300	100	40	40	150	1	5	0.4	50	80	3.5	-
CX 904	N	TO-92A	300	100	40	80	540#	5	5	0.4	50	80	5	2+
CX 954	P	TO-92A	300	100	40	80	540#	5	5	0.4	50	80	5	2+
EN 930	N	TO-106	200	50	45	100	300	0.01	5	1	10	30	8	3
K 901	N	TO-92A	300	100	20	29	146#	1	5	0.5	10	80	3.5	-
K 9014	N	TO-92A	300	100	20	60	1000#	1	5	0.5	10	50	6	2
K 9015	P	TO-92A	300	100	20	60	1000#	1	5	0.5	10	50	6	2
L 9014	N	TO-92A	300	100	25	100	1000#	1	5	0.25	10	120+	2.4+	3
L 9015	P	TO-92A	300	100	25	100	1000#	1	5	0.25	10	120+	3.5+	3
MPS 2711	N	TO-92A	360	100	18	30	90	2	4.5	-	-	-	4	-
MPS 2712	N	TO-92A	360	100	18	75	225	2	4.5	-	-	-	12	-
MPS 2713	N	TO-92A	350	200	18	30	90	2	4.5	0.3	50	250+	2.5+	-
MPS 2714	N	TO-92A	350	200	18	75	225	2	4.5	0.3	50	250+	2.5+	-
MPS 2716	N	TO-92A	360	25	18	75	225	2	4.5	-	-	-	5	-
MPS 2923	N	TO-92A	360	100	25	90	180▲	2	10	-	-	-	12	-
MPS 2924	N	TO-92A	360	100	25	150	300▲	2	10	-	-	-	12	-
MPS 2925	N	TO-92A	360	100	25	235	470▲	2	10	-	-	-	12	-
MPS 2926	N	TO-92A	360	100	18	35	470▲#	2	10	-	-	-	3.5	-
MPS 3390	N	TO-92A	360	100	25	400	800	2	4.5	-	-	-	10	-
MPS 3391	N	TO-92A	360	100	25	250	500	2	4.5	-	-	-	10	-
MPS 3392	N	TO-92A	360	100	25	150	300	2	4.5	-	-	-	10	-
MPS 3393	N	TO-92A	360	100	25	90	180	2	4.5	-	-	-	10	-
MPS 3394	N	TO-92A	360	100	25	55	110	2	4.5	-	-	-	10	-
MPS 3395	N	TO-92A	360	100	25	150	500	2	4.5	-	-	-	10	-

#HFE groupings available ▲ h<sub>FE</sub> @ 1 KHz + Typical value

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			P <sub>d</sub> (mW)	I <sub>C</sub> (mA)	V <sub>CEO</sub> (V)	min	max	I <sub>C</sub> (mA)	V <sub>CE</sub> (V)	max (V)	I <sub>C</sub> (mA)			
MPS 3396	N	TO-92A	360	100	25	90	500	2	4.5	—	—	—	10	—
MPS 3397	N	TO-92A	360	100	25	55	500	2	4.5	—	—	—	10	—
MPS 3398	N	TO-92A	360	100	25	55	800	2	4.5	—	—	—	10	—
MPS 3707	N	TO-92A	360	30	30	100	400	0.1	5	1	10	—	—	—
MPS 3708	N	TO-92A	360	30	30	45	660	1	5	1	10	—	—	—
MPS 3709	N	TO-92A	360	30	30	45	165	1	5	1	10	—	—	—
MPS 3710	N	TO-92A	360	30	30	90	330	1	5	1	10	—	—	—
MPS 3711	N	TO-92A	360	30	30	180	660	1	5	1	10	—	12	—
MPS 3721	N	TO-92A	360	100	18	60	660	2	10	—	—	—	3.5	—
MPS 5172	N	TO-92A	360	100	25	100	500	10	10	0.25	10	—	10	—
MPS 6512	N	TO-92A	350	100	30	50	100	2	10	0.5	50	100	3.5	2+
MPS 6513	N	TO-92A	350	100	30	90	180	2	10	0.5	50	100	3.5	2+
MPS 6514	N	TO-92A	350	100	25	150	300	2	10	0.5	50	100	3.5	2+
MPS 6515	N	TO-92A	350	100	25	250	500	2	10	0.5	50	100	3.5	2+
MPS 6516	P	TO-92A	350	100	40	50	100	2	10	0.5	50	100	4	2+
MPS 6517	P	TO-92A	350	100	40	90	180	2	10	0.5	50	100	4	2+
MPS 6518	P	TO-92A	350	100	40	150	300	2	10	0.5	50	100	4	2+
MPS 6519	P	TO-92A	350	100	25	250	500	2	10	0.5	50	100	4	2+
MPS 6520	N	TO-92A	360	100	25	200	400	2	10	0.5	50	—	3.5	3
MPS 6521	N	TO-92A	360	100	25	300	600	2	10	0.5	50	—	3.5	3
MPS 6522	P	TO-92A	360	100	25	200	400	2	10	0.5	50	—	3.5	3
MPS 6523	P	TO-92A	360	100	25	300	600	2	10	0.5	50	—	3.5	3
MPS 6565	N	TO-92A	360	200	45	40	160	10	10	0.4	10	200	3.5	—
MPS 6566	N	TO-92A	360	200	45	100	400	10	10	0.4	10	200	3.5	—
MPS 6571	N	TO-92A	360	50	20	250	1000	0.1	5	0.5	10	50	4.5	—
MPS 6573	N	TO-92A	360	100	35	200	500	10	5	0.5	10	100	12	—
MPS 6574	N	TO-92A	360	100	35	100	300#	1	5	0.5	10	100	12	—
MPS 6575	N	TO-92A	360	100	45	200	500	10	5	0.5	10	100	12	—
MPS 6576	N	TO-92A	360	100	45	100	300#	1	5	0.5	10	100	12	—
MPS 9600	N	TO-92A	300	100	12	25	300#	1	5	0.5	10	50	4	—
MPS 9601	N	TO-92A	300	100	18	25	300#	1	5	0.5	10	50	4	—
MPS 9602	N	TO-92A	300	100	30	25	300#	1	5	0.5	10	50	4	—
MPS 9630	N	TO-92A	350	100	12	45	600#	1	5	0.5	30	—	—	—
MPS 9631	N	TO-92A	350	100	18	45	600#	1	5	0.5	30	—	—	—
MPS 9632	N	TO-92A	350	100	30	45	600#	1	5	0.5	30	—	—	—
MPSA 09	N	TO-92A	350	50	50	100	600	0.1	5	0.9	10	30	5	—
MPSA 10	N	TO-92A	210	100	40	40	400	5	10	—	—	20	4	—
MPSA 20	N	TO-92A	350	100	40	40	400#	5	10	0.25	10	125	4	—
MPSA 70	P	TO-92A	350	100	40	40	400#	5	10	0.25	10	125	4	—
MPSD 06	N	TO-92A	350	50	25	50	—	50	5	0.3	50	100	—	—
MPSD 56	P	TO-92A	350	50	25	50	—	50	5	0.3	50	100	—	—
PN 930	N	TO-92A	300	100	45	100	300	0.01	5	1	10	30	8	3
PN 3548	P	TO-92A	300	100	45	100	300	0.01	5	1	10	60	8	4
PN 3565	N	TO-92A	300	50	25	150	600	1	10	0.35	1	40	4	—
PN 5138	P	TO-92A	300	50	30	50	800	0.1	10	0.3	10	30	7	—
SE 4010	N	TO-106	200	50	25	200	1000	1	10	0.35	1	60	4	3
2N 703	N	TO-18	300	50	25	40	100	10	5	0.5	10	70	6	—
2N 760	N	TO-18	500	100	45	76	333▲	1	5	1	10	50	8	—
2N 841	N	TO-18	300	1000	45	60	400	10	5	2	10	40	15	—
2N 929	N	TO-18	500	30	45	40	120	0.01	5	1	10	30	8	4
2N 929A	N	TO-18	500	30	45	40	120	0.01	5	0.5	10	45	6	4

#HFE groupings available ▲h<sub>fe</sub> @ 1 KHz + Typical value

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TYPE NO.	POLARITY	CASE	MAXIMUM RATINGS			HFE				VCE(SAT)		f <sub>T</sub> min (MHz)	Cob max (pF)	N.F. max (dB)
			Pd (mW)	Ic (mA)	VCEO (V)	min	max	Ic (mA)	VCE (V)	max (V)	Ic (mA)			
2N 930	N	TO-18	500	30	45	100	300	0.01	5	1	10	30	8	3
2N 930A	N	TO-18	500	30	45	100	300	0.01	5	0.5	10	45	6	3
2N 2586	N	TO-18	300	100	45	120	360	0.01	5	0.5	10	45	7	3
2N 2711	N	TO-92B	200	100	18	30	90	2	4.5	-	-	-	12	2.8+
2N 2712	N	TO-92B	200	100	18	75	225	2	4.5	-	-	-	12	2.8+
2N 2714	N	TO-92B	200	100	18	75	225	2	4.5	0.3	50	-	-	-
2N 2716	N	TO-92B	200	100	18	75	225	2	4.5	-	-	-	5	-
2N 2923	N	TO-92B	200	100	25	90	180▲	2	10	-	-	-	12	-
2N 2924	N	TO-92B	200	100	25	150	300▲	2	10	-	-	-	12	-
2N 2925	N	TO-92B	200	100	25	235	470▲	2	10	-	-	-	12	-
2N 2926	N	TO-92B	200	100	18	35	470▲	2	10	-	-	-	12	-
2N 3390	N	TO-92B	200	100	25	400	800	2	4.5	-	-	-	10	-
2N 3391	N	TO-92B	200	100	25	250	500	2	4.5	-	-	120+	10	-
2N 3391A	N	TO-92B	200	100	25	250	500	2	4.5	-	-	120+	10	5
2N 3392	N	TO-92B	200	100	25	150	300	2	4.5	-	-	120+	10	-
2N 3393	N	TO-92B	200	100	25	90	180	2	4.5	-	-	120+	10	-
2N 3394	N	TO-92B	200	100	25	55	110	2	4.5	-	-	120+	10	-
2N 3395	N	TO-92B	200	100	25	150	500	2	4.5	-	-	-	10	-
2N 3396	N	TO-92B	200	100	25	90	500	2	4.5	-	-	-	10	-
2N 3397	N	TO-92B	200	100	25	55	500	2	4.5	-	-	-	10	-
2N 3398	N	TO-92B	200	100	25	55	800	2	4.5	-	-	-	10	-
2N 3547	P	TO-18	400	100	60	100	500	1	5	1	10	45	8	5
2N 3548	P	TO-18	400	100	45	100	300	0.01	5	1	10	60	8	4
2N 3549	P	TO-18	400	100	60	100	500	0.01	5	1	10	60	8	4
2N 3550	P	TO-18	400	100	45	200	600	0.01	5	0.5	5	60	8	4
2N 3565	N	TO-106	200	50	25	150	600	1	10	0.35	1	40	4	-
2N 3691	N	TO-106	200	50	25	40	160	10	1	0.7	10	200	6	-
2N 3692	N	TO-106	200	50	25	100	400	10	1	0.7	10	200	6	-
2N 3707	N	TO-92B	360	200	30	100	400	0.1	5	1	10	-	-	5
2N 3708	N	TO-92B	360	200	30	45	660	1	5	1	10	-	-	-
2N 3709	N	TO-92B	360	200	30	45	165	1	5	1	10	-	-	-
2N 3710	N	TO-92B	360	200	30	90	330	1	5	1	10	-	-	-
2N 3711	N	TO-92B	360	200	30	180	660	1	5	1	10	-	-	-
2N 3721	N	TO-92B	200	100	18	60	660	2	10	1	100	100	12	-
2N 3843	N	TO-92B	200	100	30	20	40	2	4.5	1	10	60	4	10.2
2N 3843A	N	TO-92B	200	100	30	20	40	2	4.5	1	10	60	4	8.5
2N 3844	N	TO-92B	200	100	30	35	70	2	4.5	1	10	90	4	10.2
2N 3844A	N	TO-92B	200	100	30	35	70	2	4.5	1	10	90	4	8.5
2N 3845	N	TO-92B	200	100	30	60	120	2	4.5	1	10	120	4	10.2
2N 3845A	N	TO-92B	200	100	30	60	120	2	4.5	1	10	120	4	8.5
2N 3858	N	TO-92B	200	100	30	60	120	2	4.5	0.125	10	90	4	-
2N 3859	N	TO-92B	200	100	30	100	200	2	4.5	0.125	10	90	4	-
2N 3860	N	TO-92B	200	100	30	150	300	2	4.5	0.125	10	90	4	-
2N 3900	N	TO-92B	360	100	18	250	500	2	4.5	-	-	160+	12	-
2N 3901	N	TO-92B	360	100	18	350	700	2	4.5	-	-	200+	10	-
2N 3962	P	TO-18	360	200	60	100	300	0.01	5	0.25	10	40	6	3
2N 3964	P	TO-18	360	200	45	250	500	0.01	5	0.25	10	50	6	2
2N 4058	P	TO-92B	360	100	30	100	400	0.1	5	0.7	10	-	-	5
2N 4059	P	TO-92B	360	100	30	45	660	1	5	0.7	10	-	-	-
2N 4060	P	TO-92B	360	100	30	45	165	1	5	0.7	10	-	-	-
2N 4061	P	TO-92B	360	100	30	90	330	1	5	0.7	10	-	-	-
2N 4062	P	TO-92B	360	100	30	180	660	1	5	0.7	10	-	-	-
2N 4248	P	TO-106	200	100	40	50	-	0.1	5	0.25	10	40	6	-
2N 4249	P	TO-106	200	100	60	100	300	0.1	5	0.25	10	40	6	3
2N 4250	P	TO-106	200	100	40	250	700	0.1	5	0.25	10	50	6	2

#HFE groupings available ▲ h<sub>fe</sub> @ 1 KHz + Typical value

# Audio Frequency Small Signal Transistors

TYPE NO.	POLARITY	CASE	MAXIMUM RATINGS			HFE				VCE(SAT)		f <sub>T</sub> min (MHz)	Cob max (pF)	N.F. max (dB)
			P <sub>d</sub> (mW)	I <sub>C</sub> (mA)	V <sub>CEO</sub> (V)	min	max	I <sub>C</sub> (mA)	V <sub>CE</sub> (V)	max (V)	I <sub>C</sub> (mA)			
2N 4286	N	TO-92B	250	100	25	150	600	1	5	0.35	1	40	6	-
2N 4287	N	TO-92B	250	100	45	150	600	1	5	0.35	1	40	6	5
2N 4288	P	TO-92B	250	100	25	150	600	1	5	0.35	1	40	8	-
2N 4289	P	TO-92B	250	100	45	150	600	1	5	0.35	1	40	8	4
2N 4290	P	TO-92B	250	600	20	50	300	100	10	0.4	100	100	10	-
2N 4291	P	TO-92B	250	600	30	100	300	100	10	0.4	100	100	10	-
2N 4359	P	TO-18	360	50	45	50	600	1	5	-	-	20	6	4
2N 4384	N	TO-18	300	50	30	100	500	0.01	5	0.2	10	30	8	2
2N 4386	N	TO-18	300	50	30	40	500	0.01	5	0.2	10	30	8	3
2N 4964	P	TO-106	200	100	40	30	120	0.01	5	0.4	10	60	8	6
2N 4965	P	TO-106	200	100	40	80	400	0.01	5	0.4	10	60	8	6
2N 4966	N	TO-106	200	100	40	40	200	0.01	5	0.4	10	40	6	6
2N 4967	N	TO-106	200	100	40	100	600	0.01	5	0.4	10	40	6	6
2N 4968	N	TO-106	200	100	25	40	200	0.01	5	0.4	10	40	6	6
2N 5086	P	TO-92A	350	50	50	150	500	0.1	5	0.3	10	40	4	3
2N 5088	N	TO-92A	350	50	30	300	900	0.1	5	0.5	10	50	4	3
2N 5089	N	TO-92A	350	50	25	400	1200	0.1	5	0.5	10	50	4	2
2N 5133	N	TO-106	200	50	18	60	1000	1	5	0.4	10	40	5	-
2N 5138	P	TO-106	200	50	30	50	800	0.1	10	0.3	10	30	7	-
2N 5172	N	TO-92B	200	100	25	100	500	10	10	0.25	10	-	-	-
2N 5209	N	TO-92A	350	50	50	100	300	0.1	5	0.7	10	30	4	4
2N 5219	N	TO-92A	350	100	15	35	500	2	10	0.4	10	150	4	-
2N 5223	N	TO-92A	350	100	20	50	800	2	10	0.7	10	150	4	-
2N 5227	P	TO-92A	350	50	30	50	700	2	10	0.4	10	100	5	-
2N 5309	N	TO-92B	360	100	50	60	120	0.01	5	0.125	10	-	4	-
2N 5310	N	TO-92B	360	100	50	100	300	0.01	5	0.125	10	-	4	-
2N 5824	N	TO-92F	360	100	40	60	120	2	5	0.125	10	90	4	-
2N 5825	N	TO-92F	360	100	40	100	200	2	5	0.125	10	90	4	-
2N 5826	N	TO-92F	360	100	40	150	300	2	5	0.125	10	90	4	-
2N 5827	N	TO-92F	360	100	40	250	500	2	5	0.125	10	90	4	-
2N 5828	N	TO-92F	360	100	40	400	800	2	5	0.125	10	90	4	-
2SA 499	P	TO-18	250	100	20	60	200#	10	1	0.4	0.01	100	7	-
2SA 500	P	TO-18	250	100	20	60	200#	10	1	0.4	0.01	100	7	-
2SA 550	P	TO-18	300	50	25	65	700#	2	5	-	-	120+	5+	-
2SA 550A	P	TO-18	300	50	45	65	700#	2	5	-	-	120+	5+	-
2SA 564	P	TO-92B	250	50	25	65	700#	2	5	0.4	50	150+	3.2+	2+
2SA 564A	P	TO-92B	250	50	45	65	700#	2	5	0.4	50	150+	3.2+	2+
2SA 666	P	TO-92B	250	50	25	130	700#	2	5	0.4	50	80+	-	16
2SA 666A	P	TO-92B	250	50	45	130	700#	2	5	0.4	50	80+	-	16
2SA 721	P	TO-92B	150	50	35	180	1040#	2	5	0.6	100	250+	-	-
2SA 722	P	TO-92B	150	50	55	180	1040#	2	5	0.6	100	250+	-	-
2SA 888	P	TO-92A	350	50	25	65	700#	2	5	0.5	50	100+	2.7+	-
2SA 889	P	TO-92A	350	50	45	65	700#	2	5	0.5	50	100+	2.7+	-
2SC 316	N	TO-18	300	50	45	-	600	2	5	1.2	10	50+	-	-
2SC 400	N	TO-18	250	100	20	30	350#	10	1	0.4	0.01	100	6	-
2SC 536	N	TO-92B	200	100	20	40	850#	1	6	-	-	-	6	-
2SC 537	N	TO-92B	200	100	-	40	850#	1	6	-	-	-	6	-
2SC 538	N	TO-18	300	50	25	90	700#	2	5	0.32	100	180+	4+	-
2SC 538A	N	TO-18	300	50	45	90	700#	2	5	0.32	100	180+	4+	-
2SC 539	N	TO-18	300	50	25	90	700#	2	5	0.32	100	180+	4+	4
2SC 644	N	TO-92B	150	50	25	130	700#	2	5	0.4	50	75	10	3
2SC 693	N	TO-92B	100	50	-	100	850#	1	6	-	-	90	6	-
2SC 828	N	TO-92B	250	50	25	65	700#	2	5	0.4	50	150+	2.5+	2+
2SC 828A	N	TO-92B	250	50	45	65	700#	2	5	0.4	50	150+	2.5+	2+

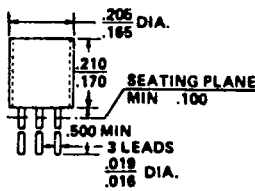
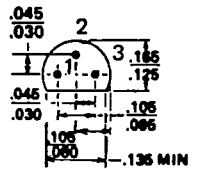
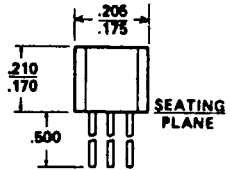
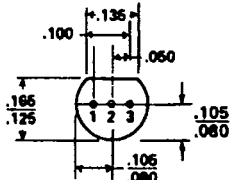
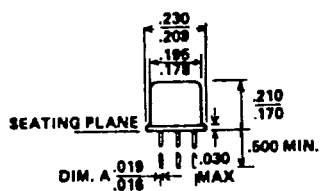
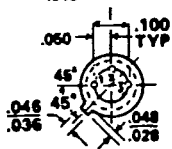
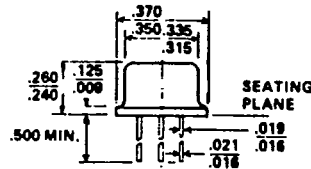
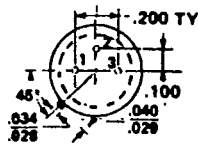
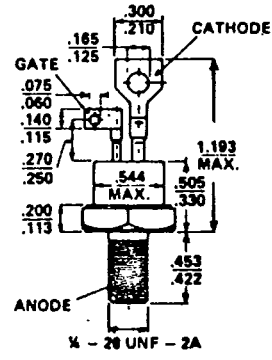
# HFE groupings available + Typical value

## Audio Frequency Small Signal Transistors

TYPE NO.	POLARITY	CASE	MAXIMUM RATINGS			HFE				VCE(SAT)		f <sub>T</sub> min (MHz)	Cob max (pF)	N.F. max (dB)
			P <sub>d</sub> (mW)	I <sub>C</sub> (mA)	V <sub>CEO</sub> (V)	min	max	I <sub>C</sub> (mA)	VCE (V)	max (V)	I <sub>C</sub> (mA)			
2SC 858	N	TO-92B	100	50	12	100	850#	1	6	—	—	90	6	—
2SC 900	N	TO-92B	250	100	35	225	1000#	0.5	3	0.3	100	50	5	4
2SC 923	N	TO-92B	250	100	35	225	1000#	0.5	3	0.3	100	50	5	20
2SC 945	N	TO-92B	250	100	50	90	600#	1	6	0.3	100	150	5	15
2SC 1327	N	TO-92B	150	50	35	180	1040#	2	5	0.6	100	250+	—	—
2SC 1330	N	TO-92B*	400	100	40	60	400#	1	6	0.5	30	50	6	—
2SC 1684	N	TO-92B	250	100	25	90	650#	2	10	0.5	100	150+	3.5+	—
2SC 1685	N	TO-92B	250	100	50	90	650#	2	10	0.5	100	150+	3.5+	—
2SC 1849	N	TO-92A	350	100	25	90	650#	2	10	0.5	100	—	—	—
2SC 1850	N	TO-92A	350	100	50	90	650#	2	10	0.5	100	—	—	—

# HFE groupings available + Typical value \* with x-67 heatsink

# Packaging Information

<p><b>PACKAGING INFORMATION</b></p>	<p>1. CATHODE 2. GATE 3. ANODE</p>  	<p><b>SCR</b> 1. CATHODE 2. GATE 3. ANODE</p>  
	<p><b>TO-18 (PLASTIC)</b></p>	<p><b>TO-92</b></p>
<p>1. CATHODE 2. GATE 3. ANODE</p>  	<p><b>SCR</b> 1. CATHODE 2. GATE 3. ANODE</p> <p><b>TRIAK</b> 1. MT 1 2. GATE 3. MT 2</p>  	
<p><b>TO-18</b></p>	<p><b>TO-39</b></p>	<p><b>TO-48D</b></p>