



Elliott Sound Products

Abridged Transistor Specifications

The following is a very small sample of the types currently available, but should be of some assistance when you have no idea what a particular device is supposed to do. For devices not listed here, you will need to do your own checking (either on the web, or elsewhere).

For basic case information, please see the case outlines at the end of this page. These are not complete (the old germanium devices are not represented), but the common ones are there. Note that some devices have different pinouts, depending on the sub-class of the case type. These are not accounted for in this list. There are also many common types that are missing - I will try to update the list as time permits.

NOTE: This is not a stock list - I do not sell any of these devices, so please don't ask.

Terms

Number	The type number of the device
Case	Case style (sub categories are not included)
Pol	Polarity - N=NPN P=PNP
Mat	Material - G=Germanium S=Silicon
Vce	Breakdown voltage; Collector to Emitter
Vcb	Breakdown voltage; Collector to Base
IC	Collector current (in milliamps)
Vces	Saturation voltage (when transistor is fully on with specified current IC) (V)
Hfe	Current gain (minimum and maximum are shown at specified current IC)
FT	Frequency Transition - the frequency where gain falls to unity MHz)
Ptot	Total power dissipation in milliwatts (at 25 degrees C)
Use	The intended purpose - this is not a specification but a suggestion
	S.S. Small Signal
	H.F. High Frequency
	H.C. High Current
	G.P. General Purpose
	Sw Switch
	O/P Output
	V.H.F Very High Frequency

Bipolar Transistors

Number	Case	Pol/Mat	Vce	Vcb	IC	Vces	at IC	Min Hfe	Max Hfe	at IC	FT	at IC	Ptot	Suggested Use
AC107	GT3	NG	15	15	10	-	-	30	160	3	2	3	80	Low Noise Audio
AC125	TO-1	PG	12	32	100	-	-	100	100	2	1.3	10	216	Audio Driver
AC126	TO-1	PG	12	32	100	-	-	140	140	2	1.7	10	216	Audio Driver
AC127	TO-1	NG	12	32	500	-	-	105	105	300	1	10	340	Audio O/P
AC128	TO-1	PG	16	32	1000	0.6	1000	60	175	300	1	10	260	Audio O/P
AC132	TO-1	PG	12	32	200	0.3 5	200	115	115	50	1.3	10	216	Audio O/P
AC187	TO-1	NG	15	25	2000	0.8	1000	100	500	300	1	10	800	Audio O/P
AC188	TO-1	PG	15	25	2000	0.6	1000	100	500	300	1	10	220	Audio O/P
AD149	TO-3	PG	30	50	3500	0.7	3000	30	100	100 0	0.3	200	32000	GP O/P
AD161	PT1	NG	20	32	3000	0.6	1000	80	320	500	0.0 2	300	4000	Audio amp
AD162	PT1	PG	20	32	3000	0.4	1000	80	320	500	0.0 2	300	6000	Audio amp
AF114	TO-7	PG	15	32	10	0	0	150	150	1	75	1	75	H.F. amp
AF115	TO-7	PG	15	32	10	0	0	150	150	1	75	1	75	H.F. amp
AF116	TO-7	PG	15	32	10	0	0	150	150	1	75	1	75	H.F. amp
AF117	TO-7	PG	15	32	10	0	0	150	150	1	75	1	75	H.F. amp
AF118	TO-7	PG	20	70	30	5	30	35	35	100 0	175	10	375	V.H.F. amp
ASZ15	TO-3	PG	60	10 0	1000 0	0.4	1000 0	20	55	100 0	0.2	1000	30000	H.C. sw
Number	Case	Pol/Mat	Vce	Vcb	IC	Vces	at IC	Min Hfe	Max Hfe	at IC	FT	at IC	Ptot	Suggested Use
ASZ16	TO-3	PG	32	60	1000 0	0.4	1000 0	45	130	100 0	0.2 5	1000	30000	H.C. sw

ASZ17	TO-3	PG	32	60	1000 0	0.4	1000 0	25	75	100 0	0.2 2	1000	30000	H.C. sw
ASZ18	TO-3	PG	32	10 0	1000 0	0.4	1000 0	30	110	100 0	0.2 2	1000	30000	H.C. sw
BC107	TO-18	NS	45	50	100	0.2	100	110	450	2	300	10	300	S.S. amp
BC108	TO-18	NS	20	30	100	0.2	100	110	800	2	300	10	300	S.S. amp
BC109	TO-18	NS	20	30	100	0.2	100	200	800	2	300	10	300	Low Noise s.s. amp
BC109C	TO-18	NS	20	30	100	0.2	100	420	800	2	300	10	300	Low noise high gain
BC157	SOT- 25	PS	45	50	100	0.2 5	100	75	260	2	150	10	300	S.S. amp
BC158	SOT- 25	PS	25	30	100	0.2 5	100	75	500	2	150	10	300	S.S. amp
BC159	SOT- 25	PS	20	25	100	0.2 5	100	125	500	2	150	10	300	S.S. amp
BC177	TO-18	PS	45	50	100	0.2 5	100	75	260	2	150	10	300	S.S. amp
BC178	TO-18	PS	25	30	100	0.2 5	100	75	500	2	150	10	300	S.S. amp
BC179	TO-18	PS	20	25	100	0.2 5	100	125	500	2	150	10	300	S.S. amp
BC182L	TO-92	NS	50	10	200	0.2 5	10	100	480	2	150	10	300	S.S. amp
BC183L	TO-92	NS	30	45	200	0.2 5	10	100	850	2	150	10	300	S.S. amp
BC184L	TO-92	NS	30	45	200	0.2 5	10	250	850	2	150	10	300	Low noise high gain
BC186	TO-18	PS	25	40	200	0.5	50	40	200	2	50	50	300	G.P. amp
Number	Case	Pol/Mat	Vce	Vcb	IC	Vces	at IC	Min Hfe	Max Hfe	at IC	FT	at IC	Ptot	Suggested Use
BC207	TO- 106	NS	45	50	200	0.2 5	10	110	220	2	150	10	300	S.S. amp
BC208	TO- 106	NS	20	25	200	0.2 5	10	110	800	2	150	10	300	S.S. amp

BC209	TO-106	NS	20	25	200	0.2 5	10	200	800	2	150	10	300	Low noise high gain
BC212L	TO-92	PS	50	60	200	0.2 5	10	60	300	2	200	10	300	S.S. amp
BC213L	TO-92	PS	30	45	200	0.2 5	10	80	400	2	200	10	300	S.S. amp
BC214L	TO-92	PS	30	45	200	0.2 5	10	80	400	2	200	10	300	S.S. amp
BC327	TO-92	PS	45	0	1000	0.7	500	100	600	100	100	10	800	O/P
BC337	TO-92	NS	45	0	1000	0.7	500	100	600	100	200	10	800	O/P
BC547	SO7-30	NS	45	50	100	0.6	100	110	800	2	300	10	500	S.S. amp
BC548	SO7-30	NS	30	30	100	0.6	100	110	800	2	300	10	500	S.S. amp
BC549	SO7-30	NS	30	30	100	0.6	100	200	800	2	300	10	500	Low noise s. sig
BC549C	SO7-30	NS	30	30	100	0.6	100	420	800	2	300	10	500	Low noise high gain
BC635	TO-92	NS	45	45	1000	0.5	500	40	250	150	130	500	1000	Audio O/P
BC636	TO-92	PS	45	45	1000	0.5	500	40	250	150	130	500	1000	Audio O/P
BC639	TO-92	NS	80	10 0	1000	0.5	500	40	160	150	130	0	1000	Audio O/P
BC640	TO-92	PS	80	10 0	1000	0.5	500	40	160	150	130	0	1000	Audio O/P
BCY70	TO-18	PS	40	50	200	0.5	50	50	50	10	250	50	350	G.P.
Number	Case	Pol/Mat	Vce	Vcb	IC	Vces	at IC	Min Hfe	Max Hfe	at IC	FT	at IC	Ptot	Suggested Use
BCY71	TO-18	PS	45	45	200	0.5	50	100	600	10	200	50	350	G.P.
BCY72	TO-18	PS	25	25	200	0.5	50	50	50	10	200	50	350	G.P.
BD137	TO-12G	NS	60	60	1000	0.5	500	40	160	150	250	500	8000	G.P. O/P
BD138	TO-126	PS	60	60	1000	0.5	500	40	160	150	75	500	8000	G.P. O/P
BD139	TO-126	NS	60	10 0	1000	0.5	500	40	160	150	250	500	8000	G.P. O/P
BD140	TO-126	PS	80	100	1000	0.5	500	40	160	150	75	500	8000	G.P. O/P

BD262	TO-126	PS	60	60	4000	2.5	1500	750	750	1500	7	1500	36000	High gain darl. O/P
BD263	TO-126	NS	60	80	4000	2.5	1500	750	750	1500	7	1500	36000	High gain darl. O/P
BD266A	TO-220	PS	80	80	8000	2	3000	750	750	3000	7	0	60000	High gain darl. O/P
BD267A	TO-220	NS	80	100	8000	2	3000	750	750	3000	7	0	60000	High gain darl. O/P
BDX64A	TO-3	PS	80	80	12000	2.5	5000	1000	1000	8000	7	5000	117	Darl. O/P
BDX65A	TO-3	NS	80	80	12000	2.5	5000	1000	1000	8000	7	5000	117000	Darl. O/P
BDY20	TO-3	NS	60	100	15000	1.1	4000	20	70	4000	1	4000	115W	Power O/P
BF115	TO-72	NS	30	50	30	0	0	45	165	1	230	1	145	V.H.F. amp.
BF167	TO-72	NS	30	40	25	0	0	26	26	4	350	4	130	T.V. I.F. amp
BF173	TO-72	NS	25	40	25	0	0	37	37	7	550	5	230	T.V. I.F. amp
BF177	TO-39	NS	60	100	50	0	0	20	20	15	120	10	795	T.V. video amp
Number	Case	Pol/Mat	Vce	Vcb	IC	Vces	at IC	Min Hfe	Max Hfe	at IC	FT	at IC	Ptot	Suggested Use
BF178	TO-39	NS	115	185	50	0	0	20	20	30	120	10	1700	T.V. video amp
BF179	TO-39	NS	115	250	50	0	0	20	20	20	120	10	1700	T.V. video amp
BF180	TO-72	NS	20	30	20	0	0	13	13	2	675	2	150	U.H.F. amp
BF184	TO-72	NS	20	30	30	0	0	75	750	1	300	1	145	H.F. amp
BF185	TO-72	NS	20	30	30	0	0	34	140	1	220	1	145	H.F. amp

BF194	SOT25	NS	20	30	30	0	0	65	220	1	260	1	250	H.F. amp
BF195	SOT25	NS	20	30	30	0	0	35	125	1	200	1	250	H.F. amp
BF200	TO-72	NS	20	30	20	0	0	15	15	3	650	3	150	V.H.F amp
BF336	TO-39	NS	180	180	100	0	0	20	60	30	130	0	3000	Video amp
BF337	TO-39	NS	200	300	100	0	0	20	60	30	130	0	3000	Video amp
BF338	TO-39	NS	225	250	100	0	0	20	60	30	130	0	3000	Video amp
BFY50	TO-39	NS	35	80	1000	2	150	30	30	150	60	50	2860	G.P.
BFY51	TO-39	NS	30	60	1000	0.35	150	40	40	150	50	50	2860	G.P.
BFY52	TO-39	NS	20	40	1000	0.35	150	60	60	150	50	50	2860	G.P.
MJ2501	TO-3	PS	80	80	10000	2	5000	1000	1000	5000	0	0	150000	Darl. O/P
MJ2955	TO-3	PS	60	70	15000	1.1	4000	20	70	4000	4	500	115000	High power O/P
MJ3001	TO-3	NS	80	80	10000	2	5000	1000	1000	5000	0	0	150000	Darl. O/P
Number	Case	Pol/Mat	Vce	Vcb	IC	Vces	at IC	Min Hfe	Max Hfe	at IC	FT	at IC	Ptot	Suggested Use
MJE2955	90-05	PS	60	70	10000	1.1	4000	20	70	4000	2	500	90000	High power O/P
MJE3055	90-05	NS	60	70	10000	1.1	4000	20	70	4000	2	500	90000	High power O/P
MU9610	152	NS	30	40	2000	0.4	1500	80	400	350	70	250	1000	O/P
MU9611	152-01	NS	30	40	2000	0.4	1500	80	400	350	70	250	1000	O/P
MU9660	152	PS	30	40	2000	0.4	1500	80	400	350	70	250	1000	O/P
MU9661	152-01	PS	30	40	2000	0.4	1500	80	400	350	70	250	1000	O/P
NSD106	TO-202	NS	100	140	0	2.9	100	50	150	100	80	50	0	Driver-O/P
NSD206	TO-202	PS	100	100	0	2.1	100	50	150	100	150	50	0	Driver-O/P
OC26	TO-3	PG	30	50	3500	0.7	3000	30	100	1000	3	500	32000	G.P. O/P

OC28	TO-3	PG	60	100	10000	0.4	10000	20	55	1000	2	1000	30000	H.C. switch
OC44N	TO-1	PG	5	15	10	0	0	45	225	1	7.5	1	85	R.F. amp
OC45	GT-3	PG	5	15	10	0	0	25	125	1	3	3	85	R.F. amp
OC70	GT-3	PG	10	30	50	0	0	30	30	5	5	0	125	G.P. amp
OC71	GT-3	PG	10	30	50	0	0	30	75	3	6	0	125	G.P. amp
OC72	GT-6	PG	16	32	250	0	0	45	120	10	35	0	165	Audio O/P
OC74N	TO-1	PG	10	20	300	6	300	60	150	50	1	0	550	Audio O/P
OC75	GT-3	PG	10	30	50	0	0	60	130	3	1	0	125	G.P. amp
Number	Case	Pol/Mat	Vce	Vcb	IC	Vces	at IC	Min Hfe	Max Hfe	at IC	FT	at IC	Ptot	Suggested Use
TIP31B	TOP-66	NS	80	80	3000	1.2	3000	20	20	500	3	500	40000	Power amp - Sw
TIP32B	TOP-66	PS	80	80	3000	1.2	3000	20	20	500	3	500	40000	Power amp - Sw
TIP2955	TOP-3	PS	70	100	15000	1.1	4000	20	20	4000	8	0	90000	Power amp - Sw
TIP3055	TOP-3	NS	70	100	15000	1.1	4000	20	20	4000	8	0	90000	Power amp - Sw
2N301	TO-3	PG	32	40	3000	0	0	50	50	1000	2	1000	11000	Audio O/P
2N706A	TO-18	NS	15	25	200	0	0	20	20	10	200	0	300	High speed Sw
2N2926	TO-92	NS	25	25	100	0	0	150	150	2	100	0	200	G.P.
2N3053	TO-39	NS	40	60	700	1.4	150	50	250	150	100	50	2860	G.P. switch
2N3054	TO-66	NS	55	90	4000	1	200	25	25	500	8	200	25000	Audio O/P
2N3055	TO-3	NS	60	90	15000	1.1	4000	20	20	4000	8	1000	115000	O/P - Sw
2N3563	TO-106	NS	12	30	50	0	0	20	200	8	600	8	200	RF - IF amp

2N3564	TO-106	NS	15	30	100	3	20	20	500	15	400	15	200	RF - IF amp
2N3565	TO-106	NS	25	30	50	35	1	150	600	1	40	1	200	Low level amp
2N3566	TO-105	NS	30	40	200	1	100	150	600	10	40	30	300	GP amp & Sw
2N3567	TO-105	NS	40	80	500	25	150	40	120	1	60	50	300	GP amp & Sw
2N3568	TO-105	NS	60	80	500	25	150	40	120	1	60	50	300	GP amp & Sw
2N3569	TO-105	NS	40	80	500	25	150	100	300	1	60	50	300	GP amp & Sw
Number	Case	Pol/Mat	Vce	Vcb	IC	Vces	at IC	Min Hfe	Max Hfe	at IC	FT	at IC	Ptot	Suggested Use
2N3638	TO-105	PS	25	25	500	25	50	30	30	50	100	50	300	GP amp & Sw
2N3638 A	TO-105	PS	25	25	500	25	50	100	100	50	150	50	300	GP amp & Sw
2N3640	TO-106	PS	12	12	80	2	10	30	120	10	300	10	200	Saturated switch
2N3641	TO-105	NS	30	60	500	22	150	40	120	0	250	50	350	GP amp & Sw
2N3642	TO-105	NS	45	60	500	22	150	40	120	150	250	50	350	GP amp & Sw
2N3643	TO-105	NS	30	60	500	22	150	100	300	150	250	50	350	GP amp & Sw
2N3644	TO-105	PS	45	45	500	1	300	115	300	50	200	20	300	GP amp & Sw
2N3645	TO-105	PS	60	60	500	1	300	115	300	500	200	20	300	GP amp & Sw
2N3702	TO-92	PS	25	40	200	25	50	60	300	50	100	50	360	GP amp & Sw
2N3904	TO-92	NS	40	60	200	0	0	100	300	1	0	0	310	Low level amp
2N4250	TO-106	PS	40	40	100	25	10	250	400	1	50	0	200	Low level amp
2N4258	TO-106	PS	12	12	50	5	50	30	120	10	700	10	200	Saturated Sw
2N4292	TO-92	NS	15	30	50	6	10	20	20	3	600	4	200	Saturated Sw
2N4403	TO-92	PS	40	40	600	0	0	100	300	10	0	0	310	G.P.

2N5589	MT-71C	NS	18	36	600	0	0	5	5	100	175	3000	15000	H.F. mobile R.F.
2N5590	MT-72C	NS	18	36	2000	0	0	5	5	250	175	10000	30000	H.F. mobile R.F.
2N5591	MT-72C	NS	18	36	4000	0	0	5	5	500	175	25000	70000	H.F. mobile R.F.
Number	Case	Pol/Mat	Vce	Vcb	IC	Vces	at IC	Min Hfe	Max Hfe	at IC	FT	at IC	Ptot	Suggested Use
2N5871	TO-3	PS	60	60	7000	1	4000	20	100	2500	4	250	100000	Power
40250	TO-66	NS	50	50	4000	1.5	1500	25	25	100	1	0	29000	Power
40408	TO-5	NS	80	0	700	1.4	150	40	200	200	100	0	1000	Power
40409	TO-39	NS	80	0	700	1.4	150	50	250	150	100	0	3000	Power
40410	TO-39	PS	80	0	700	1.4	150	50	250	150	100	0	3000	Power
Number	Case	Pol/Mat	Vce	Vcb	IC	Vces	at IC	Min Hfe	Max Hfe	at IC	FT	at IC	Ptot	Suggested Use

Case Information (Most common only)





