silicon transistors

silicon small signal transistors

general purpose — alloy

Type	Polarity	Power Dissipation @ 25°C (mW)	T_J (°C)	BV_{CBO} (volts)	BV_{CE-} (volts)	h_{FE} @ I_C (Min.)	h_{FE} @ I_C (Max.)	h_{FE} @ I_C (mA)	$V_{CE(SAT)}$ @ I_C (volts)	$V_{CE(SAT)}$ @ I_C (mA)	hf—	f— (MHz)	Case Style
		NOTE 1			NOTE 2						NOTE 3	NOTE 4	
2N327A	PNP	385 (A)	160	50	40 (O)	9.0	22	3.0	0.3	5.0	—	—	TO-5
2N327B	PNP	385 (A)	200	50	40 (O)	9.0	22	3.0	0.3	5.0	—	—	TO-5
2N328A	PNP	385 (A)	160	50	35 (O)	18	44	3.0	0.5	10	—	—	TO-5
2N328B	PNP	385 (A)	200	50	35 (O)	18	44	3.0	0.5	10	—	—	TO-5
2N329A	PNP	385 (A)	160	50	30 (O)	36	88	3.0	0.6	15	—	—	TO-5
2N329B	PNP	385 (A)	200	50	30 (O)	36	88	3.0	0.6	15	—	—	TO-5
2N330A	PNP	385 (A)	160	50	30 (O)	—	—	—	—				
2N923	PNP	250 (A)	200	40	25 (O)	—	—	—	0.5	5.0	12 (E)	0.8 (B)	TO-18
2N924	PNP	250 (A)	200	40	25 (O)	9.0	—	5.0	—	5.0	24 (E)	0.8 (B)	TO-18
2N925	PNP	250 (A)	200	50	40 (O)	—	—	—	0.5	5.0	10 (E)	0.8 (B)	TO-18
2N926	PNP	250 (A)	200	50	40 (O)	—	—	—	0.5	5.0	20 (E)	0.8 (B)	TO-18
2N927	PNP	250 (A)	200	70	60 (O)	—	—	—	0.5	5.0	8 (E)	0.8 (B)	TO-18
2N928	PNP	250 (A)	200	70	60 (O)					5.0	18 (E)	0.8 (B)	TO-18
2N935	PNP	250 (A)	160	50	40 (O)	9	22	—	0.3	5.0	—	—	TO-18
2N936	PNP	250 (A)	160	50	35 (O)	18	44	—	0.5	5.0	—	—	TO-18
2N937	PNP	250 (A)	160	50	30 (O)	36	88	—	0.6	5.0	—	—	TO-18
2N938	PNP	250 (A)	175	40	35 (O)	—	—	—	0.3	5.0	9.0 (E)	1.0 (B)	TO-18
2N939	PNP	250 (A)	175	40	35 (O)	—	—	—	0.3	5.0	18 (E)	2.0 (B)	TO-18
2N940	PNP	250 (A)	175	40	35 (O)	—	—	—	0.3	5.0	36 (E)	2.0 (B)	TO-18
2N1024	PNP	250 (A)	175	18	15 (U)	—	—	—	—	—	9.0 (E)	1.0 (B)	TO-5
2N1025	PNP	250 (A)	175	40	35 (U)	—	—	—	—	—	9.0 (E)	1.0 (B)	TO-5
2N1026	PNP	250 (A)	175	40	35 (U)	—	—	—	—	—	18 (E)	2.0 (B)	TO-5
2N1027	PNP	250 (A)	175	18	15 (U)	—	—	—	—	—	18 (E)	4.0 (B)	TO-5
2N1028	PNP	250 (A)	175	12	10 (U)	—	—	—	—	—	9.0 (E)	7.2 (T)	TO-5
2N1118	PNP	150 (A)	140	25	25 (U)	—	—	—	—	—	15 (E)	8.0 (M)	TO-5
2N1118A	PNP	150 (A)	140	25	25 (U)	—	25	15	—	—	15 (E)	8.0 (M)	TO-5
2N1119	PNP	150 (A)	140	10	10 (U)	15	—	15	0.15	5.0	—	7.2 (T)	TO-5
2N1219	PNP	250 (A)	175	30	25 (O)	18	—	5.0	—	—	—	5.0 (B)	TO-5
2N1220	PNP	250 (A)	175	30	25 (O)	—	—	—	0.5	—	—	2.0 (B)	TO-5
2N1221	PNP	250 (A)	175	30	25 (O)	—	—	—	—	—	18 (E)	5.0 (B)	TO-5
2N1222	PNP	250 (A)	175	30	25 (O)	—	—	—	—	—	9.0 (E)	2.0 (B)	TO-5
2N1223	PNP	250 (A)	175	40	40 (O)	—	—	—	—	—	6.0 (E)	—	TO-5
2N1228	PNP	400 (A)	160	15	15 (O)	—	—	—	0.2	10	14 (E)	—	TO-5
2N1229	PNP	400 (A)	160	15	15 (O)	—	—	—	0.2	10	28 (E)	—	TO-5
2N1230	PNP	400 (A)	160	35	35 (O)	—	—	—	0.2	10	14 (E)	—	TO-5
2N1231	PNP	400 (A)	160	35	35 (O)	—	—	—	0.2	10	28 (E)	—	TO-5
2N1232	PNP	400 (A)	160	60	60 (O)	—	—	—	0.2	10	14 (E)	—	TO-5
2N1233	PNP	400 (A)	160	60	60 (O)	—	—	—	0.2	10	28 (E)	—	TO-5
2N1234	PNP	400 (A)	160	110	110 (O)	—	—	—	0.2	10	14 (E)	—	TO-5
2N1236	PNP	1000 (A)	160	15	15 (O)	—	—	—	0.2	10	14 (E)	—	TO-1
2N1239	PNP	1000 (A)	160	15	15 (O)	—	—	—	0.2	10	28 (E)	—	TO-1
2N1240	PNP	1000 (A)	160	35	35 (O)	—	—	—	0.2	10	14 (E)	—	TO-1
2N1241	PNP	1000 (A)	160	35	35 (O)	—	—	—	0.2	10	28 (E)	—	TO-1
2N1242	PNP	1000 (A)	160	60	60 (O)	—	—	—	0.2	10	14 (E)	—	TO-1
2N1243	PNP	1000 (A)	160	60	60 (O)	—	—	—	0.2	10	28 (E)	—	TO-1
2N1244	PNP	1000 (A)	160	110	110 (O)	—	—	—	0.2	10	14 (E)	—	TO-1
2N1275	PNP	250 (A)	160	100	80 (O)	9	25	1.0	0.3	5.0	—	100* (B)	TO-5
2N1429	PNP	100 (A)	140	6	6 (O)	12	—	5.0	0.1	5.0	25 (E)	16 (T)	TO-5
2N1439	PNP	400 (A)	200	50	50 (O)	—	—	—	0.25	5.0	9.0 (E)	0.5 (B)	TO-5
2N1440	PNP	400 (A)	200	60	50 (O)	—	—	—	0.25	5.0	9.0 (E)	1.0 (B)	TO-5
2N1441	PNP	400 (A)	200	50	35 (O)	—	—	—	0.25	5.0	18 (E)	1.0 (B)	TO-5
2N1442	PNP	400 (A)	200	50	30 (O)	—	—	—	0.25	5.0	30 (E)	1.0 (B)	TO-5
2N1443	PNP	400 (A)	200	50	15 (O)	—	—	—	0.25	5.0	50 (E)	1.0 (B)	TO-5
2N1469	PNP	250 (A)	175	40	35 (U)	—	—	—	—	—	36 (E)	2.0 (B)	TO-5
2N1474	PNP	250 (A)	175	60	60 (U)	—	—	—	—	—	12 (E)	1.0 (B)	TO-5
2N1474A	PNP	250 (A)	175	60	60 (U)	—	—	—	—	—	18 (E)	2.0 (B)	TO-5
2N1475	PNP	250 (A)	175	60	60 (U)	—	—	—	—	—	36 (E)	1.0 (B)	TO-5
2N1476	PNP	250 (A)	175	100	100 (U)	—	—	—	—	—	12 (E)	1.0 (B)	TO-5
2N1477	PNP	250 (A)	175	100	100 (U)	—	—	—	—	—	30 (E)	1.0 (B)	TO-5
2N1623	PNP	250 (A)	160	50	20 (O)	9.0	40	1.0	0.3	5.0	—	100* (B)	TO-5
2N1643	PNP	250 (A)	160	25	25 (U)	10	25	.100	—	—	—	—	TO-5
2N1654	PNP	250 (A)	160	100	80 (O)	20	45	1.0	0.3	5.0	—	100* (B)	TO-5
2N1655	PNP	250 (A)	160	125	100 (O)	10	22	1.0	0.3	5.0	—	100* (B)	TO-5
2N1656	PNP	250 (A)	160	125	100 (O)	20	45	1.0	0.3	5.0	—	100* (B)	TO-5
2N2175	PNP	100 (A)	175	6	6 (O)	30	—	.020	—	—	—	10 (T)	TO-5
2N2176	PNP	100 (A)	175	6	6 (O)	30	—	.020	—	—	—	10 (T)	TO-18
2N2177	PNP	100 (A)	160	6	6 (O)	15	—	.005	—	—	50 (E)	8.0 (B)	TO-5
2N2178	PNP	100 (A)	160	6	6 (O)	15	—	.005	—	—	50 (E)	8.0 (B)	TO-18
2N3342	PNP	250 (A)	175	20	8 (O)	30	—	5.0	0.1	5.0	—	—	TO-5
2N3343	PNP	25 (A)	175	25	8 (O)	20	—	.25	—	—	—	2.0 (T)	TO-5
2N3344	PNP	250 (A)	175	30	30 (O)	25	—	1.0	—	—	—	2.0 (T)	TO-5
2N3345	PNP	250 (A)	175	50	50 (O)	15	—	1.0	—	—	—	2.0 (T)	TO-5
2N3346	PNP	250 (A)	175	50	50 (O)	25	—	1.0	—	—	—	2.0 (T)	TO-5

* KHz

NOTES:
The following notes define test conditions or parameters. They are inserted directly below their appropriate column headings throughout the transistor section.

NOTE 1 — (for Power Dissipation @ 25°C)
A = Ambient Temperature
C = Case Temperature
J = Junction Temperature

NOTE 2 — (for BV_{CE-})
O = Base Open
R = Specified Resistance
S = Base Shorted
V = Used only when Voltage Bias is applied
X = Base-Emitter Back Biased

NOTE 3 — (for hf—)
E = Common Emitter
B = Common Base
C = Common Collector

NOTE 4 — (for f—)
B = Common Base Cutoff
E = Common Emitter Cutoff
M = Minimum Frequency of Oscillations
T = Current Gain-Bandwidth Product