

NPN Transistors

NPN Silicon Transistors (≈TO-92 Plastic Package)

On special request, these transistors will also be produced with TO-18 pin configuration.

Type	Pin Config.	V _{CEO}	h _{FE}	at V _{CE} /I _C	V _{CEsat}	at I _C /I _B	I _{CES}	at V _{CE}	f _T	at V _{CE} /I _C	C _{ob}	at V _{CB}
		Volts		V/mA	max. V	mA/mA	max. nA	V	MHz	V/mA	max. pF	V
BC337-16	B	45	100-250	1/100	0.7	500/50	100	45	100	5/10	typ. 12	10
BC337-25	B	45	160-400	1/100	0.7	500/50	100	45	100	5/10	typ. 12	10
BC337-40	B	45	250-630	1/100	0.7	500/50	100	45	100	5/10	typ. 12	10
BC338-16	B	25	100-250	1/100	0.7	500/50	100	25	100	5/10	typ. 12	10
BC338-25	B	25	160-400	1/100	0.7	500/50	100	25	100	5/10	typ. 12	10
BC338-40	B	25	250-630	1/100	0.7	500/50	100	25	100	5/10	typ. 12	10
BC546A	B	65	110-220	5/2	0.6	100/5	15	80	300	5/10	6.0	10
BC546B	B	65	200-450	5/2	0.6	100/5	15	80	300	5/10	6.0	10
BC547A	B	45	110-220	5/2	0.6	100/5	15	50	300	5/10	6.0	10
BC547B	B	45	200-450	5/2	0.6	100/5	15	50	300	5/10	6.0	10
BC547C	B	45	420-800	5/2	0.6	100/5	15	50	300	5/10	6.0	10
BC548A	B	30	110-220	5/2	0.6	100/5	15	30	300	5/10	6.0	10
BC548B	B	30	200-450	5/2	0.6	100/5	15	30	300	5/10	6.0	10
BC548C	B	30	420-800	5/2	0.6	100/5	15	30	300	5/10	6.0	10
BC549B ¹⁾	B	30	200-450	5/2	0.6	100/5	15	30	300	5/10	6.0	10
BC549C ¹⁾	B	30	420-800	5/2	0.6	100/5	15	30	300	5/10	6.0	10
BF420	D	300 ²⁾	min. 50	20/25	0.6	30/5	10 ³⁾	200	min. 60	10/10	1.6	30
BF422	D	250	min. 50	20/25	0.6	30/5	10 ³⁾	200	min. 60	10/10	1.6	30
ITT8050CU	E	25	120-200	1/100	0.5	500/50	100	35	100	5/10	typ. 12	10
ITT8050DU	E	25	160-300	1/100	0.5	500/50	100	35	100	5/10	typ. 12	10
ITT9013G *)	B	30	110-183	1/50	0.5	500/20	100	31	100	5/10	typ. 12	10
ITT9013H *)	B	30	177-250	1/50	0.5	500/20	100	31	100	5/10	typ. 12	10
ITT9014A *)	B	30	60-150	5/1	0.6	100/5	15	30	300	5/10	6.0	10
ITT9014B *)	B	30	100-300	5/1	0.6	100/5	15	30	300	5/10	6.0	10
ITT9014C *)	B	30	200-600	5/1	0.6	100/5	15	30	300	5/10	6.0	10
ITT9014D *)	B	30	400-1000	5/1	0.6	100/5	15	30	300	5/10	6.0	10
JC337-16	D	45	100-250	1/100	0.7	500/50	100	45	100	5/10	typ. 12	10
JC337-25	D	45	160-400	1/100	0.7	500/50	100	45	100	5/10	typ. 12	10
JC337-40	D	45	250-630	1/100	0.7	500/50	100	45	100	5/10	typ. 12	10
JC338-16	D	25	100-250	1/100	0.7	500/50	100	25	100	5/10	typ. 12	10
JC338-25	D	25	160-400	1/100	0.7	500/50	100	25	100	5/10	typ. 12	10
JC338-40	D	25	250-630	1/100	0.7	500/50	100	25	100	5/10	typ. 12	10
JC500-O	D	25	90-180	5/1	0.6	100/5	15	30	250	5/10	6.0	10
JC500-P	D	25	135-270	5/1	0.6	100/5	15	30	250	5/10	6.0	10
JC500-Q	D	25	200-400	5/1	0.6	100/5	15	30	250	5/10	6.0	10
JC500-R	D	25	300-600	5/1	0.6	100/5	15	30	250	5/10	6.0	10
JC501-O	D	45	90-180	5/1	0.6	100/5	15	50	250	5/10	6.0	10
JC501-P	D	45	135-270	5/1	0.6	100/5	15	50	250	5/10	6.0	10
JC501-Q	D	45	200-400	5/1	0.6	100/5	15	50	250	5/10	6.0	10
JC501-R	D	45	300-600	5/1	0.6	100/5	15	50	250	5/10	6.0	10
JC546A	D	65	110-220	5/2	0.6	100/5	15	80	300	5/10	6.0	10
JC546B	D	65	200-450	5/2	0.6	100/5	15	80	300	5/10	6.0	10
JC547A	D	45	110-220	5/2	0.6	100/5	15	50	300	5/10	6.0	10
JC547B	D	45	200-450	5/2	0.6	100/5	15	50	300	5/10	6.0	10
JC547C	D	45	420-800	5/2	0.6	100/5	15	50	300	5/10	6.0	10
JC548A	D	30	110-220	5/2	0.6	100/5	15	50	300	5/10	6.0	10
JC548B	D	30	200-450	5/2	0.6	100/5	15	50	300	5/10	6.0	10
JC548C	D	30	420-800	5/2	0.6	100/5	15	50	300	5/10	6.0	10
JC549B 1)	D	30	200-450	5/2	0.6	100/5	15	50	300	5/10	6.0	10
JC549C 1)	D	30	420-800	5/2	0.6	100/5	15	50	300	5/10	6.0	10
2N3904	E	40	100-300	1/10	0.3	50/5	50 ⁴⁾	30	min. 300	20/10	4.0	5

*) The transistors with suffix "U" (for example ITT9013HU) are also available with pin configuration "E".

1) Low Noise Type 2) V_{CEr} 3) I_{CB0} 4) I_{CEV}