PNP Transistors

'2N' and 'TP' Device Types

ELECTRICAL CHARACTERISTICS at T_A = 25°C

Device Type	I_C Max. (mA)	$V_{(BR)CBO}$ (V)	$V_{(BR)CEO}$ (V)	$V_{(BR)EBO}$ (V)	I_{CBO} Max. (nA)	I_{CBO} @V_{CB} (V)	DC Current Gain h_{FE} Min.	h_{FE} Max.	@I_C (mA)	@V_{CE} (V)	$V_{CE(sat)}$ Max. (V)	$V_{CE(sat)}$ @I_C (mA)	f_T Min. (MHz)	f_T @I_C (mA)	C_{ob}[1] (pF)	t_s[1] (ns)	NF[1] (dB)	Process
2N5087	100	50	50	—	50	35	250	800	0.1	5.0	0.3	10	40	0.5	4.0	—	2.0	BXE
TP5138	100	30	30	5.0	50	20	50	800	0.1	10	0.3	10	30	0.5	7.0	—	—	BXE
TP5139	200	20	20	5.0	50[3]	15	30	—	0.1	10	0.2	10	300	10	5.0	200	—	BTB
2N5142	500	20	20	4.0	50[3]	12	30	—	50	1.0	0.5	50	100	50	10	200	—	JFA
2N5221	500	15	15	3.0	100	10	30	600	50	10	0.5	150	100	20	15	—	—	JFA
2N5226	500	25	25	4.0	300	15	30	600	50	10	0.8	100	50	20	20	—	—	JFA
2N5227	100	30	30	3.0	100	10	50	700	2.0	10	0.4	10	100	10	5.0	—	—	BXE
2N5354	500	25	25	4.0	100	25	40	120	50	1.0	0.25	50	250	2.0	8.0	—	—	JFA
2N5355	500	25	25	4.0	100	25	100	300	50	1.0	0.25	50	250	2.0	8.0	—	—	JFA
2N5356	500	25	25	4.0	100	25	250	500	50	1.0	0.25	50	250	2.0	8.0	—	—	JFA
2N5365	500	40	40	4.0	100	40	40	120	50	1.0	0.25	50	250	2.0	8.0	—	—	JFA
2N5366	500	40	40	4.0	100	40	100	300	50	1.0	0.25	50	250	2.0	8.0	—	—	JFA
2N5367	500	40	40	4.0	100	40	250	500	50	1.0	0.25	50	250	2.0	8.0	—	—	JFA
TP5372	500	60	30	5.0	50	40	40	120	150	10	0.3	150	150	20	10	150	—	JFA
TP5373	500	60	30	5.0	50	40	100	300	150	10	0.3	150	150	20	10	150	—	JFA
TP5374	500	60	30	5.0	50	40	200	400	150	10	0.3	150	150	20	10	175	—	JFA
TP5375	500	40	30	5.0	50	30	40	400	150	10	0.3	150	150	20	10	175	—	JFA
TP5378	500	40	30	5.0	10	30	120	—	1.0	5.0	—	—	—	—	10	—	—	JFA
TP5379	500	40	30	5.0	10	30	100	500	0.1	5.0	0.2	10	200	0.5	—	—	3.0	JFA
TP5382	200	40	40	5.0	50	30	50	—	10	1.0	0.25	10	200	10	4.5	—	5.0	BTB
TP5383	200	40	40	5.0	50	30	100	300	10	1.0	0.25	10	250	10	4.5	—	4.0	BTB
2N5400	300	130	120	5.0	50	100	40	180	10	5.0	0.2	10	100	10	6.0	—	8.0	VHB
2N5401	300	160	150	5.0	50	120	60	240	10	5.0	0.2	10	100	10	6.0	—	8.0	VHB
TP5447	500	40	25	5.0	100	20	60	300	50	5.0	0.25	50	100	50	12	—	—	JFA
TP5448	500	50	30	5.0	100	20	30	150	50	5.0	0.25	50	100	50	12	—	—	JFA
TP5811	800	35	25	5.0	100	25	60	200	2.0	2.0	0.75	500	100	50	15	—	—	JMA
TP5813	800	35	25	5.0	100	25	150	500	2.0	2.0	0.75	500	135	50	15	—	—	JMA
TP5815	800	50	40	5.0	100	25	60	120	2.0	2.0	0.75	500	100	50	15	—	—	JMA
TP5817	800	50	40	5.0	100	25	100	200	2.0	2.0	0.75	500	120	50	15	—	—	JMA
TP5819	800	50	40	5.0	100	25	150	300	2.0	2.0	0.75	500	135	50	15	—	—	JMA
TP5821	800	70	60	5.0	100	25	60	120	2.0	2.0	0.75	500	100	50	15	—	—	JMA
TP5823	800	70	60	5.0	100	25	100	200	2.0	2.0	0.75	500	120	50	15	—	—	JMA
TP5855	1000	60	60	5.0	100	40	50	300	150	10	0.4	150	100	50	15	—	—	DJC
TP5857	1000	80	80	5.0	100	60	50	300	150	10	0.4	150	100	50	15	—	—	DJC
2N5999	500	35	25	5.0	30	25	150	300	10	2.0	0.25	50	140	10	—	—	1.5	JFA
2N6009	500	35	25	5.0	30	25	250	500	10	2.0	0.25	50	140	10	—	—	1.5	JFA
2N6076	500	25	25	5.0	100	25	100	500	10	10	0.25	10	—	—	13	—	—	JFA

NOTES:
1) Maximum at typical JEDEC conditions.
2) µA.
3) $V_{(BR)CES}/I_{CES}$, as applicable.
4) mA.
5) $V_{(BR)CER}$ at R = 10Ω.