NPN Transistors

ELECTRICAL CHARACTERISTICS at T_A = 25°C

Device Type	Marking	$V_{(BR)CBO}$ (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
TMPT2221A	N54	75	40	6.0	10	60	40	120	150	10	0.3	150	250	20	8.0	225	—	DCA
TMPT2222	1B	60	30	5.0	10	50	100	300	150	10	0.4	150	250	20	8.0	—	—	JGA
TMPT2222A	1P	75	40	6.0	10	60	100	300	150	10	0.3	150	250	20	8.0	225	—	DCA
TMPT2484	1U	60	60	6.0	10	45	100	500	10[2]	5.0	0.35	1.0	15	0.05	10	—	3.0	FEE
TMPT3903	N72	60	40	6.0	50	30	50	150	10	1.0	0.2	10	250	10	4.0	—	6.0	FFB
TMPT3904	1A	60	40	6.0	50	30	100	300	10	1.0	0.2	10	300	10	4.0	—	5.0	FFB
TMPT4124	ZC	30	25	5.0	50	20	120	360	2.0	1.0	0.3	50	300	10	4.0	—	5.0	FEE
TMPT4401	2X	60	40	6.0	100	30	100	300	150	1.0	0.4	150	250	20	6.5	225	—	DCA
TMPT5088	1Q	35	30	—	50	20	300	900	0.1	5.0	0.5	10	—	—	4.0	—	3.0	FEE
TMPT5089	1R	30	25	—	50	15	400	1200	0.1	5.0	0.5	10	—	—	4.0	—	2.0	FEE
TMPT5550	1F	160	140	6.0	100	100	60	250	10	5.0	0.15	10	100	10	6.0	—	10	VXA
TMPT5551	1FF	180	160	6.0	50	120	80	250	10	5.0	0.15	10	100	10	6.0	—	8.0	VXA
TMPT6427	1V	40	40	12	50	30	10k	100k	10	5.0	1.2	50	130	10	7	—	10	TPM
TMPT6428	1K	60	50	6.0	10	30	250	650	0.1	5.0	0.2	10	100	1.0	3.0	—	—	FEE
TMPT6429	1L	55	45	6.0	10	30	500	1250	0.1	5.0	0.2	10	100	1.0	3.0	—	—	FEE
TMPTA05	1H	60	60	4.0	100	60	50	—	100	1.0	0.25	100	100	10	—	—	—	JLA
TMPTA06	1G	80	80	4.0	100	80	50	—	100	1.0	0.25	100	100	10	—	—	—	JLA
TMPTA12	3W	20[3]	—	10	100	15	20k	—	10	5.0	1.0	10	—	—	—	—	—	TPM
TMPTA13	1M	30[3]	—	10	100	30	10k	—	100	5.0	1.5	100	125	10	—	—	—	TPM
TMPTA14	1N	30[3]	—	10	100	30	20k	—	100	5.0	1.5	100	125	10	—	—	—	TPM
TMPTA20	1C	40	40	4.0	100	30	40	400	5.0	10	0.25	10	125	5.0	4.0	—	—	VRB
TMPTA42	1D	300	300	6.0	100	200	40	—	30	10	0.5	20	50	10	3.0	—	—	BLA
TMPTA43	1E	200	200	6.0	100	160	40	—	30	10	0.5	20	50	10	4.0	—	—	BLA

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.