

8514019 SPRAGUE. SEMICONDS/ICS

93D 03589 D

PLASTIC-CASE BIPOLAR TRANSISTORS

T-27-90

### NPN Transistors

#### '2N' and 'TP' Device Types

ELECTRICAL CHARACTERISTICS at  $T_A = 25^\circ\text{C}$

Device Type	$I_C$ Max. (mA)	$V_{(BR)CBO}$ (V)	$V_{(BR)CEO}$ (V)	$V_{(BR)EBO}$ (V)	$I_{CBO}$		DC Current Gain				$V_{CE(sat)}$		$f_T$		$C_{ob}^1$ (pF)	$t_s^1$ (ns)	NF1 (dB)	Process
					Max. (nA)	@ $V_{CB}$ (V)	$h_{FE}$ Min.	$h_{FE}$ Max.	@ $I_C$ (mA)	@ $V_{CE}$ (V)	Max. (V)	@ $I_C$ (mA)	Min. (MHz)	@ $I_C$ (mA)				
TP5810	800	35	25	5.0	100	25	60	200	2.0	2	0.75	500	100	50	15	—	—	JLA
TP5812	800	35	25	5.0	100	25	150	500	2.0	2	0.75	500	135	50	15	—	—	JLA
TP5814	800	50	40	5.0	100	25	60	120	2.0	2	0.75	500	100	50	15	—	—	JLA
TP5816	800	50	40	5.0	100	25	100	200	2.0	2	0.75	500	120	50	15	—	—	JLA
TP5818	800	50	40	5.0	100	25	150	300	2.0	2	0.75	500	135	50	15	—	—	JLA
TP5820	800	70	60	5.0	100	25	60	120	2.0	2	0.75	500	100	50	15	—	—	JLA
TP5822	800	70	60	5.0	100	25	100	200	2.0	2	0.75	500	120	50	15	—	—	JLA
TP5824	100	50	40	5.0	50	40	60	120	2.0	5.0	0.125	10	90	2.0	4.0	—	—	FFB
TP5825	100	50	40	5.0	50	40	100	200	2.0	5.0	0.125	10	90	2.0	4.0	—	—	FEE
TP5826	100	50	40	5.0	50	40	150	300	2.0	5.0	0.125	10	90	2.0	4.0	—	—	FEE
TP5827	100	50	40	5.0	50	40	250	500	2.0	5.0	0.125	10	90	2.0	4.0	—	—	FEE
TP5828	100	50	40	5.0	50	40	400	800	2.0	5.0	0.125	10	90	2.0	4.0	—	—	FEE
2N5830	300	120	100	5.0	50	100	80	500	10	5.0	0.2	10	100	10	4.0	—	—	VAB
2N5831	300	160	140	5.0	50	120	80	250	10	5.0	0.2	10	100	10	4.0	—	—	VAB
2N5832	300	160	140	5.0	50	120	175	500	10	5.0	0.2	10	100	10	4.0	—	—	VAB
TP5856	1000	60	60	5.0	100	40	50	300	150	10	0.4	150	100	50	15	—	—	DID
TP5858	1000	80	80	5.0	100	60	50	300	150	10	0.4	150	100	50	15	—	—	DID
TP5961	100	60	60	8.0	2.0	45	150	700	10	5.0	0.2	10	100	10	4.0	—	—	FEE
TP5962	100	45	45	8.0	2.0	30	600	1400	10	5.0	0.2	10	100	10	4.0	—	—	FEE
2N5998	500	35	25	5.0	30	25	150	300	10	2.0	0.25	50	140	10	—	—	1.5	JGA
2N6008	500	35	25	5.0	30	25	250	500	10	2.0	0.25	50	140	10	—	—	1.5	JGA
TP6222	100	60	60	5.0	50	60	75	200	2.0	5.0	0.125	10	—	—	4.0	—	—	FEE
TP6224	100	60	60	5.0	50	60	150	300	2.0	5.0	0.125	10	—	—	4.0	—	—	FEE
2N6426	500	40	40	12	50	30	20k	200k	10	5.0	1.2	50	150	10	7.0	—	10	TPM
2N6427	500	40	40	12	50	30	10k	100k	10	5.0	1.2	50	130	10	7.0	—	10	TPM
2N6428	100	60	50	6.0	10	30	250	650	0.1	5.0	0.2	10	100	1.0	3.0	—	—	FEE
2N6429	100	55	45	6.0	10	30	500	1250	0.1	5.0	0.2	10	100	1.0	3.0	—	—	FEE

NOTES:

- 1) Maximum at typical JEDEC conditions.
- 2)  $\mu\text{A}$ .
- 3)  $V_{(BR)CES}^1 I_{CES}$ , as applicable.
- 4) mA.
- 5)  $V_{(BR)CER}$  at  $R = 10\Omega$ .