

# PNP TRANSISTORS



**TO-92/TO-226AA**

## '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)	NF <sup>1</sup> (dB)	Pinning 1, 2, 3
					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)				
TP2907	500	60	40	5.0	20	50	100	300	150	10	0.4	150	200	50	8.0	100	—	EBC
TP2907A	500	60	60	5.0	10	50	100	300	150	10	0.4	150	200	50	8.0	100	—	EBC
2N3906	200	40	40	5.0	—	—	100	300	10	1.0	0.25	10	250	10	4.5	225	4.0	EBC
2N4402	500	40	40	5.0	—	—	50	150	150	2.0	0.4	150	150	20	10	225	—	EBC
2N4403	500	40	40	5.0	—	—	100	300	150	2.0	0.4	150	200	20	10	225	—	EBC
TP4413	500	40	30	5.0	10	30	120	—	1.0	5.0	0.2	1.0	20	—	8.0	—	—	EBC
TP4415	500	40	20	5.0	10	30	100	—	1.0	5.0	0.2	1.0	20	—	8.0	—	—	EBC
2N5086	100	50	50	—	50	35	150	500	0.1	5.0	0.3	10	40	0.5	4.0	—	3.0	EBC
2N5087	100	50	50	—	50	35	250	800	0.1	5.0	0.3	10	40	0.5	4.0	—	2.0	EBC
2N5400	300	130	120	5.0	50	100	40	180	10	5.0	0.2	10	100	10	6.0	—	8.0	EBC
2N5401	300	160	150	5.0	50	120	60	240	10	5.0	0.2	10	100	10	6.0	—	8.0	EBC
MPSA55	800	60	60	4.0	100	60	50	—	100	1.0	0.25	100	50	100	—	—	—	EBC
MPSA56	800	80	80	4.0	100	80	50	—	100	1.0	0.25	100	50	100	—	—	—	EBC
MPSA70	100	—	40	4.0	100	30	40	100	5.0	10	0.25	10	125	5.0	4.0	—	—	EBC

NOTES: 1) Maximum at typical JEDEC conditions.

2)  $\mu\text{A}$ .

3)  $V_{(BR)CES}/I_{CES}$ , as applicable.

4) mA.

5)  $V_{(BR)CER}$  at  $R = 10\Omega$ .