

SMALL-SIGNAL TRANSISTORS — PLASTIC (continued)

High Voltage Amplifier Transistors (TO-92 - EBC) *

These high-voltage transistors are designed for driving neon bulbs and Nixie® indicator tubes, for direct line operation, and for other applications requiring high-voltage capability at relatively low collector current. These devices are listed in order of decreasing breakdown voltage (BV_{CEO}).

Device Type	BV_{CEO} Volts Min.	I_C Amp Cont.	h_{FE} Min.	@ I_C mA	$V_{CE(sat)}$ Volts Max.	@ I_C mA	& I_B mA	f_T MHz Min.	@ I_C mA
NPN									
BF844	400	0.5	40	30	0.5	10	1	50	10
MPSA44	400	0.3	40	100	0.75	50	5	20	10
BF845	350	0.5	40	30	0.5	10	1	50	10
MPSA45	350	0.3	50	100	0.75	50	5	20	10
2N6517	350	0.5	30	30	0.3	10	1	40	10
BF393	300	0.5	40	10	0.2	20	2	50	10
MPS-A42	300	0.5	40	30	0.5	20	2	50	10
2N6516	300	0.5	45	30	0.3	10	1	40	10
BF392	250	0.5	40	10	0.2	20	2	50	10
2N6515	250	0.5	50	30	0.3	10	1	40	10
BF391	200	0.5	40	10	0.2	20	2	50	10
MPS-A43	200	0.5	40	10	0.4	20	2	50	10
2N5551	160	0.6	80	10	0.15	10	1	100	10
2N5550	140	0.6	60	10	0.15	10	1	100	10
MPS-L01	100	0.15	20	30	0.2	10	1	40	10

PNP

BF493S	350	0.5	40	10	2.0	20	2	50	10
2N6520	350	0.5	30	30	0.3	10	1	40	10
BF493	300	0.5	40	10	0.2	20	2	50	10
MPS-A92	300	0.5	40	10	0.5	20	2	50	10
2N6519	300	0.5	45	30	0.3	10	1	40	10
BF492	250	0.5	40	10	0.2	20	2	50	10
2N6518	250	0.5	50	30	0.3	10	1	40	10
BF491	200	0.5	40	10	0.2	20	2	50	10
MPS-A93	200	0.5	40	10	0.4	20	2	50	10
2N5401	150	0.6	60	10	0.2	10	1	100	10
2N5400	120	0.6	40	10	0.2	10	1	100	10
MPS-L51	100	0.6	40	50	0.25	10	1	60	10

* ECB PIN OUT (BF420/1/2/3): Table 10.
CBE PIN OUT (PBF259/493): Table 11.

Industrial Transistors (TO-92)

These devices are special products ranges intended for use in applications which require well specified high performing devices like high quality amplifier differential input, driver stage.

NPN	PNP	BV_{CEO} (Volts)	P_D mW 25°C Amb.	I_C (mA) Cont.	h_{FE}		@ I_C (mA)	V_{CE} (Volts)	F_T Typ. (MHz)	Typ. (dB)	Pin Out	T_{ON} Typ. (nS)	T_{OFF} Typ. (nS)
BCX58	BCX78	32	625	200	120	630	2	5	250	2	CBE	75	600/350
BCX59	BCX79	45	625	200	120	630	2	5	250	2	CBE	75	600/350
MPS2222	—	30	625	600	75	—	10	10	250*	—	EBC	30	270
MPS2222A	—	40	625	600	75	—	10	10	300*	—	EBC	30	270
—	MPS2307	40	625	600	75	—	10	10	200*	—	EBC	45	100
—	MPS2907A	60	625	600	100	—	10	10	200*	—	EBC	45	100