

TABLE 10 : 2N6700 SERIES MEDIUM POWER TRANSISTORS

NPN	PNP	V_{CB0} V	V_{CE0} V	Max. Cont. I_C	Max. I_{CM}	Max. $V_{CE(sat)}$ at			h_{FE} at			Min. f_T at		P_{tot} at $T_{amb} = 25^\circ C$ mW
				A	A	V	I_C mA	I_B mA	Min.	Max.	I_C mA	MHz	I_C mA	
2N6714	2N6726	40	30	1	2	0.5	1000	100	50	250	1000	50	50	1000
2N6715	2N6727	50	40	1	2	0.5	1000	100	50	250	1000	50	50	1000
2N6724	—	50	40	1	2	1.5	1000	2	4K	40K	1000	—	—	1000
2N6725	—	60	50	1	2	1.5	1000	2	4K	40K	1000	—	—	1000
2N6716	2N6728	60	60	1	2	0.35	250	25	50	250	250	50	50	1000
2N6717	2N6729	80	80	1	2	0.35	250	25	50	250	250	50	50	1000
2N6731	2N6732	100	80	1	2	0.35	350	35	100	300	350	50	200	1000
2N6718	2N6730	100	100	1	2	0.35	250	25	50	250	250	50	50	1000

TABLE 11 : NPN HIGH PERFORMANCE DARLINGTONS

The devices shown in this table are designed for applications requiring very high current gain at current levels up to 1A and power dissipation up to 1W.

Type	V_{CB0} V	V_{CE0} V	Max. I_C cont.	Max. I_{CM}	Max $V_{CE(sat)}$ at			h_{FE} at			f_T MHz	P_{tot} at $T_{amb} = 25^\circ C$ mW	Complement
			A	A	V	I_C mA	I_B mA	Min.	Max.	I_C mA	Min.		
ZTX601§	180	160	1	4	1.2	1000	10	2000	100,000	500	150	1000	—
ZTX600	160	140	1	4	1.2	1000	10	2000	100,000	500	150	1000	—
ZTX605§	140	120	1	4	1.5	1000	1	5000	—	500	150	1000	ZTX705
ZTX604	120	100	1	4	1.5	1000	1	5000	—	500	150	1000	ZTX704
ZTX614	120	100	0.8	2	1.25	800	8	10000	—	500	—	1000	—
ZTX603§	100	80	1	4	1.0	1000	1	5000	—	500	150	1000	—
ZTX602	80	60	1	4	1.0	1000	1	5000	—	500	150	1000	—
BCX38C§	80	60	0.8	2	1.25	800	8	10000	—	500	—	1000	ZTX712
BCX38B	80	60	0.8	2	1.25	800	8	4000	—	500	—	1000	—
BCX38A	80	60	0.8	2	1.25	800	8	1000	—	500	—	1000	—

TABLE 12 : PNP HIGH PERFORMANCE DARLINGTONS

Type	V_{CB0} V	V_{CE0} V	Max. I_C cont.	Max. I_{CM}	Max $V_{CE(sat)}$ at			h_{FE} at			f_T MHz	P_{tot} at $T_{amb} = 25^\circ C$ mW
			A	A	V	I_C mA	I_B mA	Min.	Max.	I_C mA	Min.	
ZTX705	120	120	1	4	1.3	1000	1	3000	30000	1000	—	1000
ZTX704§	120	100	1	4	1.3	1000	1	3000	30000	1000	—	1000
ZTX712	80	60	0.8	2	1.25	800	8	10000	—	—	—	1000

§Available with centre collector lead form option. See centre collector section for details.

SEMICONDUCTOR DICE

NPN HIGH VOLTAGE

Dice type	V _{CB0}	V _{CEO}	I _{CB0}		h _{FE}				V _{CE(sat)}			Max.	f _T	C _{OB0}	Chip geometry
	Min.	Min.	Max. at V _{CB}		at		I _C	V _{CE}	at	I _C	I _B	Min.	Max.		
	Volts	Volts	nA	Volts	Min.	Max.	mA	Volts	Volts	mA	mA	MHz	pF		
ZTX657	300	300	100	200	50	—	100	5	0.5	100	10	30	20	G10	
MPSA42	300	300	100	200	40	—	30	10	0.5	20	2	50	6	G13	
ZTX656	200	200	100	160	50	—	100	5	0.5	100	10	30	20	G10	
MPSA43	200	200	100	160	50	200	30	10	0.4	20	2	50	6	G13	
ZTX655	150	150	100	125	50	—	500	5	0.5	500	50	30	20	G12	
ZTX455	160	140	100	140	100	300	150	10	0.7	150	15	100	15	G9	
ZTX454	140	120	100	120	100	300	150	10	0.7	150	15	100	15	G9	
ZTX654	125	125	100	100	50	—	500	5	0.5	500	50	30	20	G12	
ZTX342	120	120	500	100	30	—	2	1	0.5	2	0.1	80	10	G14	
ZTX341	100	100	500	80	30	—	2	1	0.5	2	0.1	80	10	G14	

PNP HIGH VOLTAGE

Dice type	V _{CB0}	V _{CEO}	I _{CB0}		h _{FE}				V _{CE(sat)}		Max.	f _T	C _{OB0}	Chip geometry
	Min.	Min.	Max.	at V _{CB}	at	I _C	V _{CE}	at	I _C	I _B	Min.	Max.		
	Volts	Volts	nA	Volts	Min.	Max.	mA	Volts	Volts	mA	mA	MHz	pF	
ZTX757	300	300	100	200	50	—	100	5	0.5	100	10	30	20	G12
ZTX557	300	300	100	200	50	300	50	10	0.3	50	5	75	10	G11
MPSA92	300	300	250	200	25	—	30	10	0.5	20	2	50	6	G13
ZTX756	200	200	100	160	50	—	100	5	0.5	100	10	30	20	G12
ZTX556	200	200	100	160	50	300	50	10	0.3	50	5	75	10	G11
MPSA93	200	200	250	160	30	150	30	10	0.4	20	2	50	8	G13
ZTX555	160	150	100	140	50	300	300	10	0.3	100	10	100	10	G11
ZTX755	150	150	100	125	50	—	500	5	0.5	500	50	30	20	G12
ZTX554	140	125	100	120	50	300	300	10	0.3	100	10	100	10	G11
ZTX754	125	125	100	100	50	—	500	5	0.5	500	50	30	20	G12
ZTX542	120	120	500	100	30	—	2	1	0.5	2	0.1	80	10	G2
ZTX541	100	100	500	80	30	—	2	1	0.5	2	0.1	80	10	G2

NPN DARLINGTON

Dice type	V _{CB0}	V _{CEO}	I _{CB0}		h _{FE}				V _{CE(sat)}		Max.	f _T	C _{OB0}	Chip geometry
	Min.	Min.	Max. at V _{CB}		at		I _C	V _{CE}	at	I _C	I _B	Min.	Max.	
	Volts	Volts	nA	Volts	Min.	Max.	mA	Volts	Volts	mA	mA	MHz	pF	
ZTX601	180	160	100	160	2k	100k	500	10	1.1	500	5.0	150	15	G15
ZTX600	160	140	100	140	2k	100k	500	10	1.1	500	5.0	150	15	G15
ZTX605	140	120	100	120	2k	100k	1000	5	1.5	1000	1.0	150	—	G15
ZTX604	120	100	100	100	2k	100k	1000	5	1.5	1000	1.0	150	—	G15
ZTX603	100	80	100	80	2k	100k	1000	5	1.0	1000	1.0	150	—	G15
ZTX602	80	60	100	60	2k	100k	1000	5	1.0	1000	1.0	150	—	G15
BCX38A	80	60	100	60	1k	—	500	5	1.25	800	8.0	—	—	G16
BCX38B	80	60	100	60	4k	—	500	5	1.25	800	8.0	—	—	G16
BCX38C	80	60	100	60	10k	—	500	5	1.25	800	8.0	—	—	G16
MPSA14	30+	30	100	30	20k	—	100	5	1.5	100	0.1	—	—	G16
MPSA13	30+	30	100	30	10k	—	100	5	1.5	100	0.1	—	—	G16
MPSA12	20+	—	100	15	20k	—	10	5	1.0	10	0.01	—	—	G16

[†]V_{CEs}