

ZETEX SEMICONDUCTORS

CORE DRIVERS

TABLE 10 — NPN SILICON PLANAR HIGH SPEED CORE DRIVER TRANSISTORS

The devices shown in this table are designed for use in fast, medium and high voltage, high current core driving applications where the high speed at high current capability is of prime importance.

Type	V _{CB} V	V _{CEO} V	Max I _C mA	Max V _{CE(sat)} at			h _{FE} at			Switching times (Max.) at			P _{tot} at T _{amb} = 25°C mW	Package
				V	I _C mA	I _B mA	Min.	Max.	I _C mA	t _{on} ns	t _{off} ns	I _C mA		
2N3725	80	40	500	0.26	100	10	60	150	100	35	60	500	800	TO-39
BSX59	70	45	1000	0.3	150	15	25	—	500	35	60	500	800	TO-39
BSX60	70	30	1000	0.3	150	15	30	90	500	40	70	500	800	TO-39
BSX61	70	45	1000	0.5	150	15	25	—	500	50	100	500	800	TO-39
2N3512	60	35	—	0.4	150	7.5	10	—	500	30	45	150	800	TO-39
2N3724	50	30	500	0.2	100	10	60	150	100	35	60	500	800	TO-39
2N3261	40	15	500	0.35	100	10	40	150	10	13	16	100	300	TO-18

DARLINGTONS

TABLE 11 — NPN SILICON HIGH CURRENT DARLINGTON TRANSISTORS

The devices shown in this table are designed for applications requiring very high current gain. The monolithic construction has the inherent advantages of fast switching times, low saturation voltages and low leakage currents.

This table should be referred to in conjunction with the LF Power Transistor Section which contains full details of the available range of Darlington Transistors.

Type	V _{CB} V	V _{CEO} V	Max I _C A	Max V _{CE(sat)} at			h _{FE} at			Max. C _{obo} at 1MHz		Max. I _{CBO} at		P _{tot} at T _{amb} = 25°C W	Package
				V	I _C A	I _B mA	Min.	Max.	I _C A	pF	V _{CB} V	μA	V _{CB} V		
BD320A	80	60	1	1.6	1	1	1K	—	0.5	6	10	1	60	5	TO-39
BD320B	80	60	1	1.6	1	1	5K	—	0.5	6	10	1	60	5	TO-39
BD320C	80	60	1	1.6	1	1	10K	—	0.5	6	10	1	60	5	TO-39
BD321A	80	60	2	1.7	2	2	1K	—	1	8.5	10	1	60	5	TO-39
BD321B	80	60	2	1.7	2	2	5K	—	1	8.5	10	1	60	5	TO-39
BD321C	80	60	2	1.7	2	2	10K	—	1	8.5	10	1	60	5	TO-39
BD321A-18	80	60	0.5	1.7	2	2	1K	—	1	8.5	10	1	60	0.5	TO-18
BD321B-18	80	60	0.5	1.7	2	2	5K	—	1	8.5	10	1	60	0.5	TO-18
BD321C-18	80	60	0.5	1.7	2	2	10K	—	1	8.5	10	1	60	0.5	TO-18
BD322A	80	60	1	1.6	1	1	1K	—	0.5	6	10	1	60	7.5	TO-39
BD322B	80	60	1	1.6	1	1	5K	—	0.5	6	10	1	60	7.5	TO-39
BD322C	80	60	1	1.6	1	1	10K	—	0.5	6	10	1	60	7.5	TO-39
BD323A	80	60	2	1.7	2	2	1K	—	1	8.5	10	1	60	10	TO-39
BD323B	80	60	2	1.7	2	2	5K	—	1	8.5	10	1	60	10	TO-39
BD323C	80	60	2	1.7	2	2	10K	—	1	8.5	10	1	60	10	TO-39