

**SEMICONDUCTOR DICE**

ZETEX SEMICONDUCTORS

**NPN HIGH VOLTAGE**

Dice type	$V_{CB0}$	$V_{CE0}$	$I_{CB0}$		$h_{FE}$				$V_{CE(sat)}$		Max.	$f_T$	$C_{OBO}$	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	$V_{CB0}$	$V_{CE0}$	$I_{CB0}$		$h_{FE}$				$V_{CE(sat)}$		Max.	$f_T$	$C_{OBO}$	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	$V_{CB0}$	$V_{CE0}$	$I_{CB0}$		$h_{FE}$				$V_{CE(sat)}$		Max.	$f_T$	$C_{OBO}$	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	10	160	2k	100k	500	10	1.1	500	5.0	150	15	G15
ZTX600	160	140	10	140	2k	100k	500	10	1.1	500	5.0	150	15	G15
ZTX605	140	120	10	120	2k	100k	1000	5	1.5	1000	1.0	150	—	G15
ZTX604	120	100	10	100	2k	100k	1000	5	1.5	1000	1.0	150	—	G15
ZTX603	100	80	10	80	2k	100k	1000	5	1.0	1000	1.0	150	—	G15
ZTX602	80	60	10	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

 $^+V_{CES}$