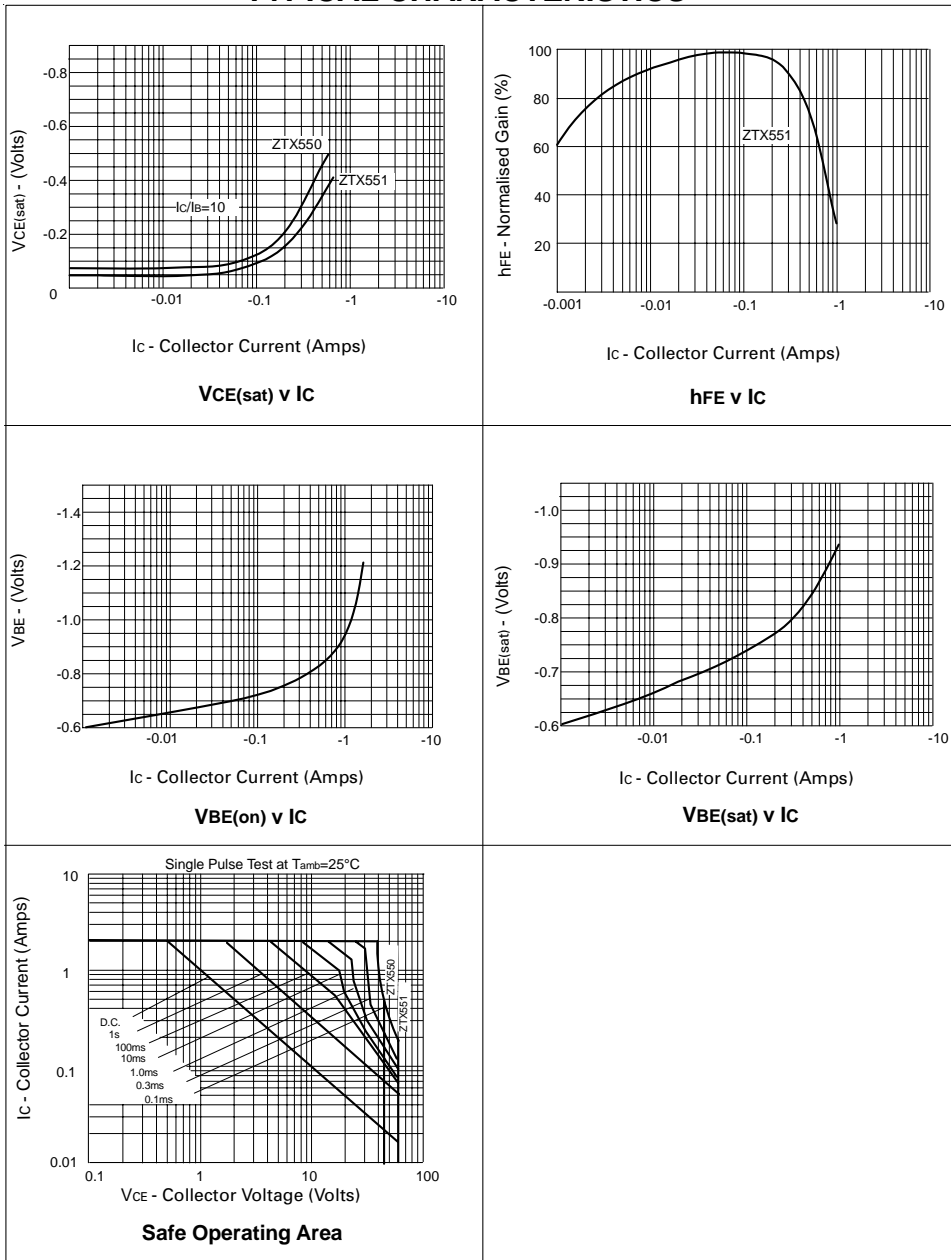


ZTX550 ZTX551

TYPICAL CHARACTERISTICS



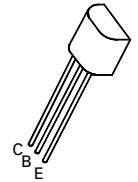
PNP SILICON PLANAR MEDIUM POWER TRANSISTORS

ISSUE 1 – MARCH 94

FEATURES

- * 60 Volt V_{CEO}
- * 1 Amp continuous current
- * $P_{tot}=1$ Watt

ZTX550 ZTX551



**E-Line
TO92 Compatible**

ABSOLUTE MAXIMUM RATINGS.

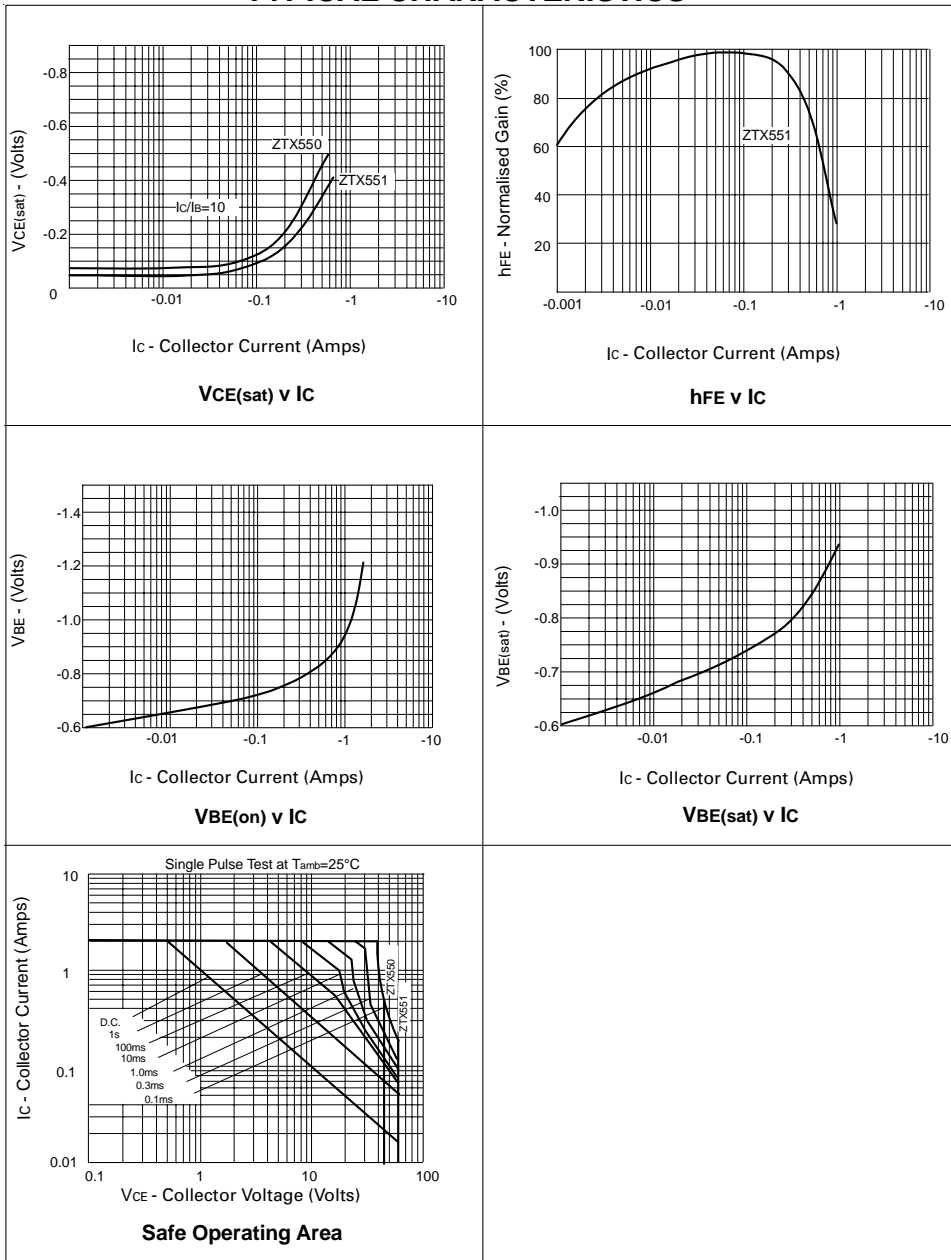
PARAMETER	SYMBOL	ZTX550	ZTX551	UNIT
Collector-Base Voltage	V_{CBO}	-60	-80	V
Collector-Emitter Voltage	V_{CEO}	-45	-60	V
Emitter-Base Voltage	V_{EBO}		-5	V
Peak Pulse Current	I_{CM}		-2	A
Continuous Collector Current	I_C		-1	A
Power Dissipation: at $T_{amb}=25^{\circ}\text{C}$ derate above 25°C	P_{tot}		1 5.7	W mW/°C
Operating and Storage Temperature Range	$T_j; T_{stg}$		-55 to +200	°C

ELECTRICAL CHARACTERISTICS (at $T_{amb} = 25^{\circ}\text{C}$.)

PARAMETER	SYMBOL	ZTX550		ZTX551		UNIT	CONDITIONS.
		MIN.	MAX.	MIN.	MAX.		
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	-60		-80		V	$I_C=-100\mu\text{A}$
Collector-Emitter Sustaining Voltage	$V_{CEO(sus)}$	-45		-60		V	$I_C=-10\text{mA}^*$
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5		-5		V	$I_E=-100\mu\text{A}$
Collector Cut-Off Current	I_{CBO}		-0.1		-0.1	μA	$V_{CB}=-45\text{V}$ $V_{CE}=-60\text{V}$
Emitter Cut-Off Current	I_{EBO}		-0.1		-0.1	μA	$V_{EB}=-4\text{V}$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$		-0.25		-0.35	V	$I_C=-150\text{mA}$, $I_B=-15\text{mA}^*$
Base-Emitter Saturation Voltage	$V_{BE(sat)}$		-1.1		-1.1	V	$I_C=-150\text{mA}$, $I_B=-15\text{mA}^*$
Static Forward Current Transfer Ratio	h_{FE}	100 15	300	50 10	150		$I_C=-150\text{mA}$, $V_{CE}=-10\text{V}^*$ $I_C=1\text{A}$, $V_{CE}=-10\text{V}^*$
Transition Frequency	f_T	150		150		MHz	$I_C=-50\text{mA}$, $V_{CE}=-10\text{V}$ $f=100\text{MHz}$

ZTX550 ZTX551

TYPICAL CHARACTERISTICS



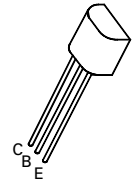
PNP SILICON PLANAR MEDIUM POWER TRANSISTORS

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ZTX550 ZTX551



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ABSOLUTE MAXIMUM RATINGS.

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Power Dissipation: at $T_{amb}=25^\circ\text{C}$ derate above 25°C	P_{tot}		1 5.7	W mW/°C
Operating and Storage Temperature Range	$T_j; T_{stg}$		-55 to +200	°C

ELECTRICAL CHARACTERISTICS (at $T_{amb} = 25^\circ\text{C}$.)

PARAMETER	SYMBOL	ZTX550		ZTX551		UNIT	CONDITIONS.
		MIN.	MAX.	MIN.	MAX.		
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	-60		-80		V	$I_C = -100\mu\text{A}$
Collector-Emitter Sustaining Voltage	$V_{CEO(sus)}$	-45		-60		V	$I_C = -10\text{mA}^*$
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5		-5		V	$I_E = -100\mu\text{A}$
Collector Cut-Off Current	I_{CBO}		-0.1		-0.1	μA	$V_{CB} = -45\text{V}$ $V_{CE} = -60\text{V}$
Emitter Cut-Off Current	I_{EBO}		-0.1		-0.1	μA	$V_{EB} = -4\text{V}$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$		-0.25		-0.35	V	$I_C = -150\text{mA}$, $I_B = -15\text{mA}^*$
Base-Emitter Saturation Voltage	$V_{BE(sat)}$		-1.1		-1.1	V	$I_C = -150\text{mA}$, $I_B = -15\text{mA}^*$
Static Forward Current Transfer Ratio	h_{FE}	100 15	300	50 10	150		$I_C = -150\text{mA}$, $V_{CE} = -10\text{V}^*$ $I_C = -1\text{A}$, $V_{CE} = -10\text{V}^*$
Transition Frequency	f_T	150		150		MHz	$I_C = -50\text{mA}$, $V_{CE} = -10\text{V}$ $f = 100\text{MHz}$

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