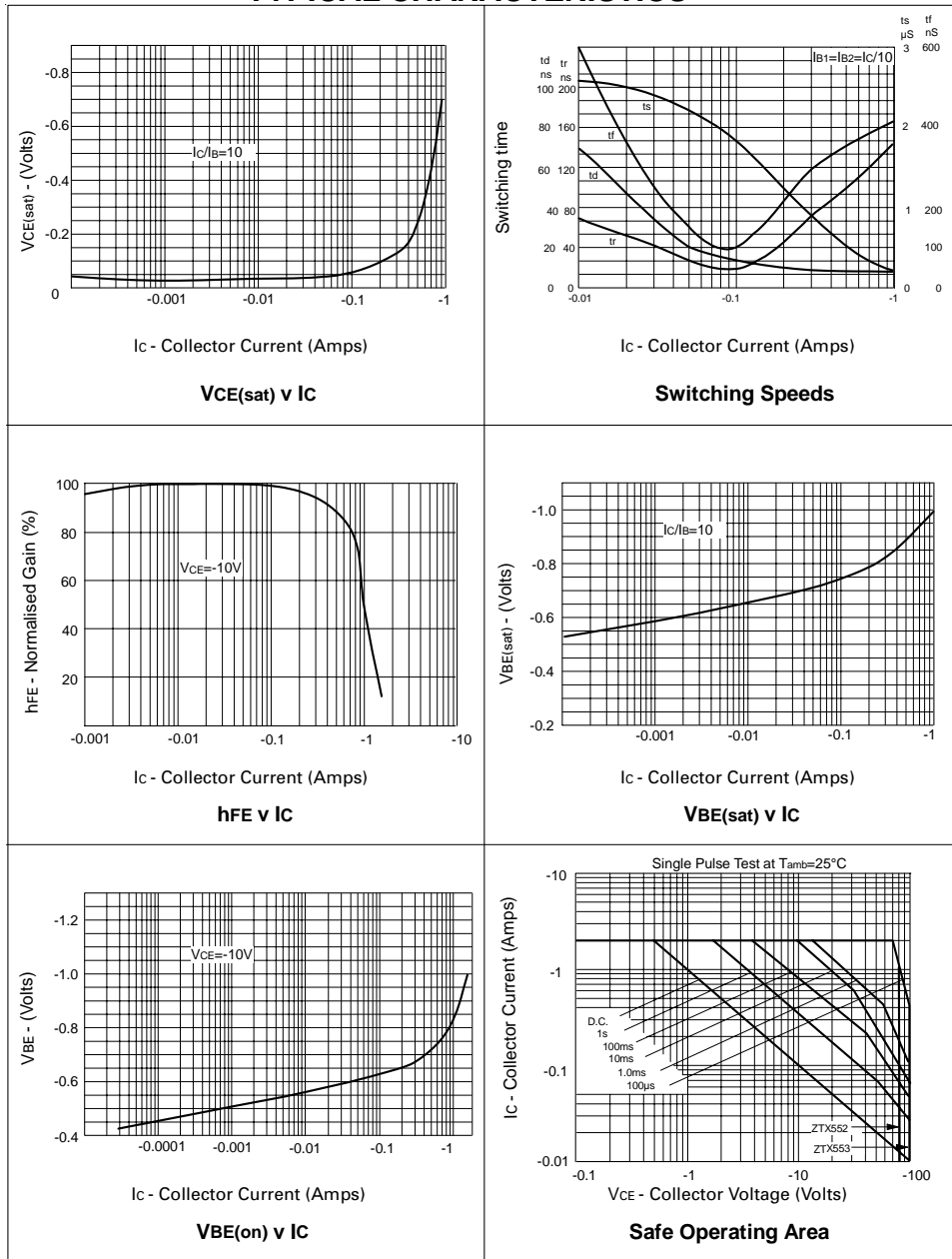


ZTX552 ZTX553

PNP SILICON PLANAR MEDIUM POWER TRANSISTORS

ZTX552 ZTX553

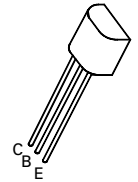
TYPICAL CHARACTERISTICS



ISSUE 1 – MARCH 94

FEATURES

- * 100 Volt V_{CE0}
- * 1 Amp continuous current
- * $P_{tot}=1$ Watt



**E-Line
TO92 Compatible**

ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	ZTX552	ZTX553	UNIT
Collector-Base Voltage	V_{CBO}	-100	-120	V
Collector-Emitter Voltage	V_{CEO}	-80	-100	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/ $^\circ\text{C}$
Operating and Storage Temperature Range	T_j, T_{stg}	-55 to +200		$^\circ\text{C}$

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

PARAMETER	SYMBOL	ZTX552		ZTX553		UNIT	CONDITIONS.
		MIN.	MAX.	MIN.	MAX.		
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	-100		-120		V	$I_C=-100\mu\text{A}$
Collector-Emitter Sustaining Voltage	$V_{CEO(sus)}$	-80		-100		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	$V_{CB}=-80\text{V}$ $V_{CE}=-100\text{V}$
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		-0.25	V	$I_C=-150\text{mA}, I_B=-15\text{mA}^*$
Base-Emitter Saturation Voltage	$V_{BE(sat)}$		-1.1		-1.1	V	$I_C=-150\text{mA}, I_B=-15\text{mA}^*$
Base-Emitter Turn-on Voltage	$V_{BE(on)}$		-1.0		-1.0	V	$I_C=-150\text{mA}, V_{CE}=-10\text{V}^*$
Static Forward Current Transfer Ratio	h_{FE}	40 10	150	40 10	200		$I_C=-150\text{mA}, V_{CE}=-10\text{V}^*$ $I_C=-1\text{A}, V_{CE}=-10\text{V}^*$
Transition Frequency	f_T	150		150		MHz	$I_C=-50\text{mA}, V_{CE}=-10\text{V}$ $f=100\text{MHz}$
Output Capacitance	C_{obo}		12		12	MHz	$V_{CB}=-10\text{V}, f=1\text{MHz}$

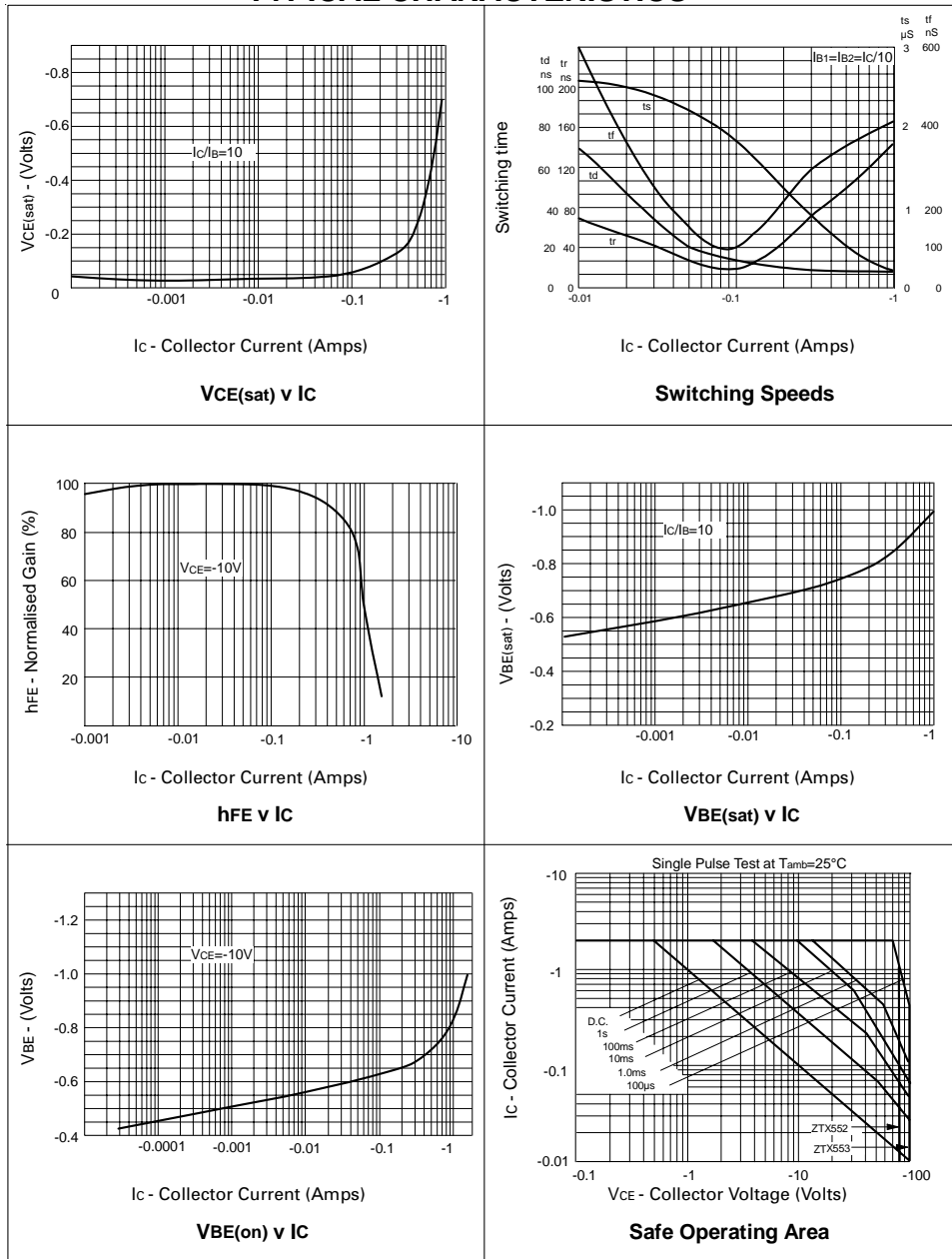
*Measured under pulsed conditions. Pulse width=300 μs . Duty cycle $\leq 2\%$

ZTX552 ZTX553

PNP SILICON PLANAR MEDIUM POWER TRANSISTORS

ZTX552 ZTX553

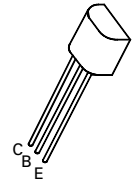
TYPICAL CHARACTERISTICS



ISSUE 1 – MARCH 94

FEATURES

- * 100 Volt V_{CE0}
- * 1 Amp continuous current
- * $P_{tot}=1$ Watt



**E-Line
TO92 Compatible**

ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	ZTX552	ZTX553	UNIT
Collector-Base Voltage	V_{CBO}	-100	-120	V
Collector-Emitter Voltage	V_{CEO}	-80	-100	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/ $^\circ\text{C}$
Operating and Storage Temperature Range	T_j, T_{stg}	-55 to +200		$^\circ\text{C}$

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

PARAMETER	SYMBOL	ZTX552		ZTX553		UNIT	CONDITIONS.
		MIN.	MAX.	MIN.	MAX.		
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	-100		-120		V	$I_C=-100\mu\text{A}$
Collector-Emitter Sustaining Voltage	$V_{CEO(sus)}$	-80		-100		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	$V_{CB}=-80\text{V}$ $V_{CE}=-100\text{V}$
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		-0.25	V	$I_C=-150\text{mA}, I_B=-15\text{mA}^*$
Base-Emitter Saturation Voltage	$V_{BE(sat)}$		-1.1		-1.1	V	$I_C=-150\text{mA}, I_B=-15\text{mA}^*$
Base-Emitter Turn-on Voltage	$V_{BE(on)}$		-1.0		-1.0	V	$I_C=-150\text{mA}, V_{CE}=-10\text{V}^*$
Static Forward Current Transfer Ratio	h_{FE}	40 10	150	40 10	200		$I_C=-150\text{mA}, V_{CE}=-10\text{V}^*$ $I_C=-1\text{A}, V_{CE}=-10\text{V}^*$
Transition Frequency	f_T	150		150		MHz	$I_C=-50\text{mA}, V_{CE}=-10\text{V}$ $f=100\text{MHz}$
Output Capacitance	C_{obo}		12		12	MHz	$V_{CB}=-10\text{V}, f=1\text{MHz}$

*Measured under pulsed conditions. Pulse width=300 μs . Duty cycle $\leq 2\%$

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Bipolar Transistors - BJT category](#):

Click to view products by [Diodes Zetex manufacturer](#):

Other Similar products are found below :

[619691C](#) [MCH4017-TL-H](#) [MJ15024/WS](#) [MJ15025/WS](#) [BC546/116](#) [BC556/FSC](#) [BC557/116](#) [BSW67A](#) [HN7G01FU-A\(T5L,F,T](#)
[NJVMJD148T4G](#) [NSVMMBT6520LT1G](#) [NTE187A](#) [NTE195A](#) [NTE2302](#) [NTE2330](#) [NTE2353](#) [NTE316](#) [IMX9T110](#) [NTE63](#) [NTE65](#)
[C4460](#) [SBC846BLT3G](#) [2SA1419T-TD-H](#) [2SA1721-O\(TE85L,F\)](#) [2SA1727TLP](#) [2SA2126-E](#) [2SB1202T-TL-E](#) [2SB1204S-TL-E](#) [2SC5488A-](#)
[TL-H](#) [2SD2150T100R](#) [SP000011176](#) [FMC5AT148](#) [2N2369ADCSM](#) [2SB1202S-TL-E](#) [2SC2412KT146S](#) [2SC4618TLN](#) [2SC5490A-TL-H](#)
[2SD1816S-TL-E](#) [2SD1816T-TL-E](#) [CMXT2207 TR](#) [CPH6501-TL-E](#) [MCH4021-TL-E](#) [BC557B](#) [TTC012\(Q\)](#) [BULD128DT4](#) [JANTX2N3810](#)
[Jantx2N5416](#) [US6T6TR](#) [KSF350](#) [068071B](#)