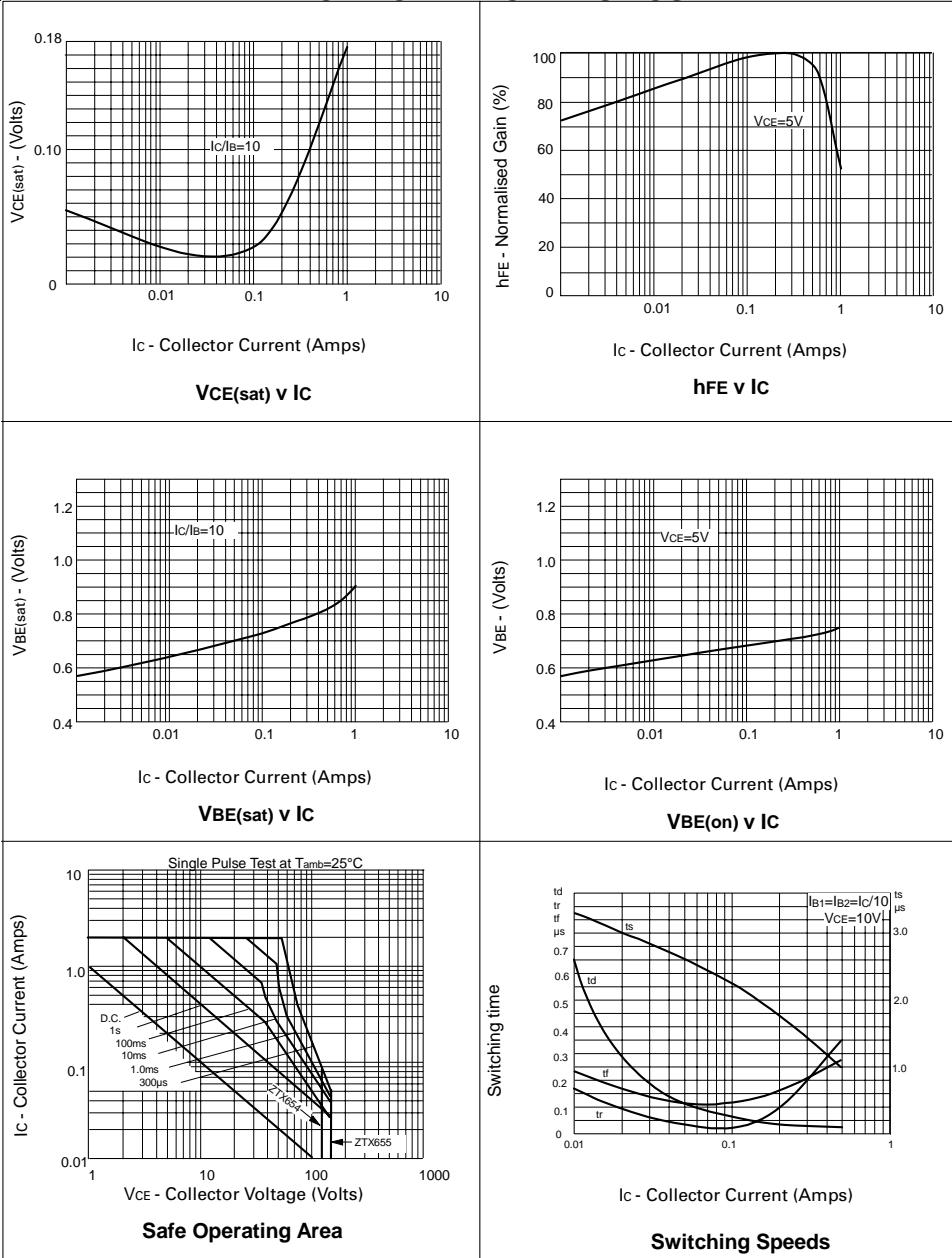


**ZTX654**  
**ZTX655**

### TYPICAL CHARACTERISTICS

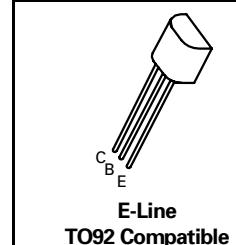


**NPN SILICON PLANAR  
MEDIUM POWER TRANSISTORS**  
ISSUE 2 – JULY 94

#### FEATURES

- \* 150 Volt V<sub>CEO</sub>
- \* 1 Amp continuous current
- \* Low saturation voltage
- \* P<sub>tot</sub> = 1 Watt

**ZTX654**  
**ZTX655**



#### ABSOLUTE MAXIMUM RATINGS.

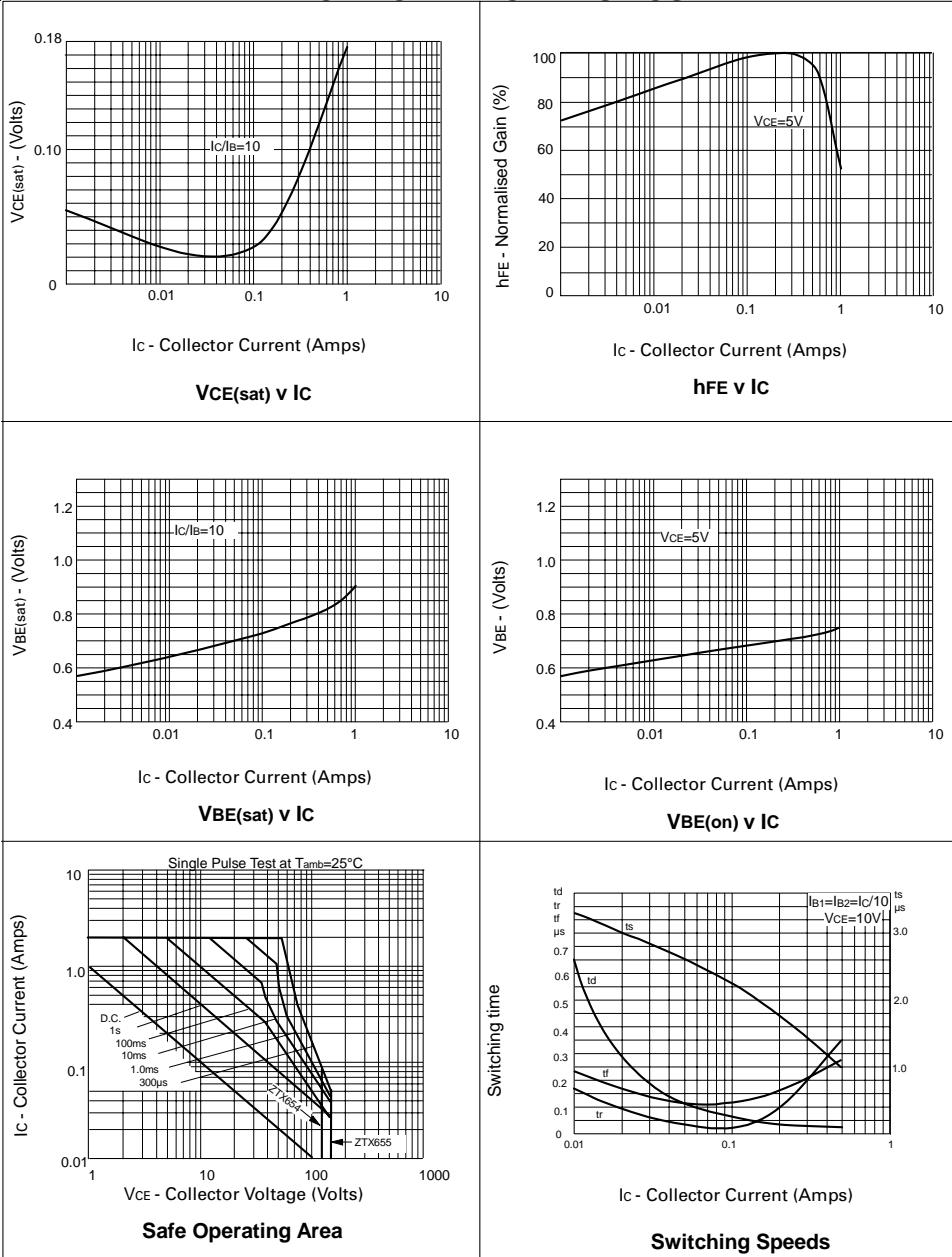
PARAMETER	SYMBOL	ZTX654	ZTX655	UNIT
Collector-Base Voltage	V <sub>CBO</sub>	125	150	V
Collector-Emitter Voltage	V <sub>CEO</sub>	125	150	V
Emitter-Base Voltage	V <sub>EBO</sub>		5	V
Peak Pulse Current	I <sub>CM</sub>		2	A
Continuous Collector Current	I <sub>C</sub>		1	A
Power Dissipation at T <sub>amb</sub> =25°C	P <sub>tot</sub>		1	W
Operating and Storage Temperature Range	T <sub>j</sub> ;T <sub>stg</sub>		-55 to +200	°C

#### ELECTRICAL CHARACTERISTICS (at T<sub>amb</sub> = 25°C unless otherwise stated).

PARAMETER	SYMBOL	ZTX654		ZTX655		UNIT	CONDITIONS.
		MIN.	MAX.	MIN.	MAX.		
Collector-Base Breakdown Voltage	V <sub>(BR)CBO</sub>	125		150		V	I <sub>C</sub> =100µA, I <sub>E</sub> =0
Collector-Emitter Breakdown Voltage	V <sub>(BR)CEO</sub>	125		150		V	I <sub>C</sub> =10mA, I <sub>B</sub> =0*
Emitter-Base Breakdown Voltage	V <sub>(BR)EBO</sub>	5		5		V	I <sub>E</sub> =100µA, I <sub>C</sub> =0
Collector Cut-Off Current	I <sub>CBO</sub>			100		nA	V <sub>CB</sub> =100V, I <sub>E</sub> =0 V <sub>CB</sub> =125V, I <sub>E</sub> =0
Emitter Cut-Off Current	I <sub>EBO</sub>			100		nA	V <sub>EB</sub> =3V, I <sub>C</sub> =0
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>	0.5	0.5	0.5	0.5	V	I <sub>C</sub> =500mA, I <sub>B</sub> =50mA* I <sub>C</sub> =1A, I <sub>B</sub> =200mA*
Base-Emitter Saturation Voltage	V <sub>BE(sat)</sub>			1.1		V	I <sub>C</sub> =500mA, I <sub>B</sub> =50mA*
Base-Emitter Turn-On Voltage	V <sub>BE(on)</sub>			1.0		V	I <sub>C</sub> =500mA, V <sub>CE</sub> =5V*
Static Forward Current Transfer Ratio	h <sub>FE</sub>	50	50	50	20		I <sub>C</sub> =10mA, V <sub>CE</sub> =5V* I <sub>C</sub> =500mA, V <sub>CE</sub> =5V* I <sub>C</sub> =1A, V <sub>CE</sub> =5V*
Transition Frequency	f <sub>T</sub>	30		30		MHz	I <sub>C</sub> =10mA, V <sub>CE</sub> =20V f=20MHz
Output Capacitance	C <sub>obo</sub>			20		pF	V <sub>CB</sub> =20V, f=1MHz

**ZTX654**  
**ZTX655**

### TYPICAL CHARACTERISTICS

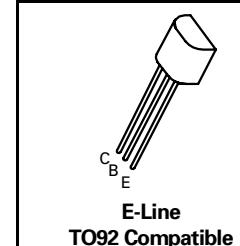


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#### ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	ZTX654	ZTX655	UNIT
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Continuous Collector Current	I <sub>C</sub>		1	A
Power Dissipation at T <sub>amb</sub> =25°C	P <sub>tot</sub>		1	W
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		MIN.	MAX.	MIN.	MAX.		
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Collector-Emitter Breakdown Voltage	V <sub>(BR)CEO</sub>	125		150		V	I <sub>C</sub> =10mA, I <sub>B</sub> =0*
Emitter-Base Breakdown Voltage	V <sub>(BR)EBO</sub>	5		5		V	I <sub>E</sub> =100µA, I <sub>C</sub> =0
Collector Cut-Off Current	I <sub>CBO</sub>			100		nA	V <sub>CB</sub> =100V, I <sub>E</sub> =0 V <sub>CB</sub> =125V, I <sub>E</sub> =0
Emitter Cut-Off Current	I <sub>EBO</sub>			100		nA	V <sub>EB</sub> =3V, I <sub>C</sub> =0
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>	0.5	0.5	0.5	0.5	V	I <sub>C</sub> =500mA, I <sub>B</sub> =50mA* I <sub>C</sub> =1A, I <sub>B</sub> =200mA*
Base-Emitter Saturation Voltage	V <sub>BE(sat)</sub>	1.1		1.1		V	I <sub>C</sub> =500mA, I <sub>B</sub> =50mA*
Base-Emitter Turn-On Voltage	V <sub>BE(on)</sub>			1.0		V	I <sub>C</sub> =500mA, V <sub>CE</sub> =5V*
Static Forward Current Transfer Ratio	h <sub>FE</sub>	50	50	50	20		I <sub>C</sub> =10mA, V <sub>CE</sub> =5V* I <sub>C</sub> =500mA, V <sub>CE</sub> =5V* I <sub>C</sub> =1A, V <sub>CE</sub> =5V*
Transition Frequency	f <sub>T</sub>	30		30		MHz	I <sub>C</sub> =10mA, V <sub>CE</sub> =20V f=20MHz
Output Capacitance	C <sub>obo</sub>			20		pF	V <sub>CB</sub> =20V, f=1MHz

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