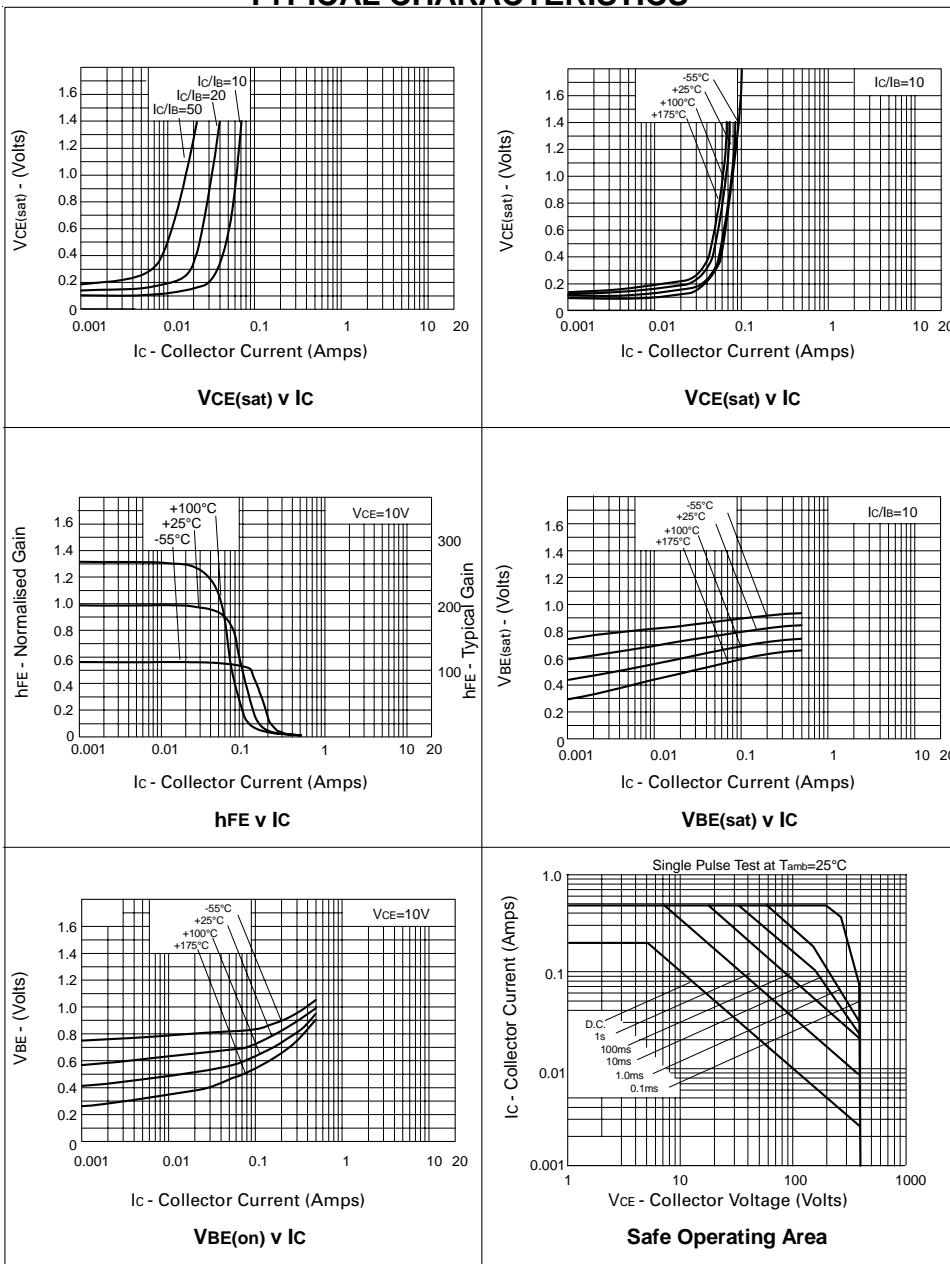


# ZTX558

## TYPICAL CHARACTERISTICS



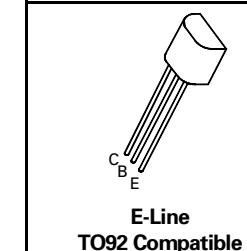
## PNP SILICON PLANAR MEDIUM POWER HIGH VOLTAGE TRANSISTOR

ISSUE 1 - APRIL 94

### FEATURES

- \* 400 Volt V<sub>CEO</sub>
- \* 200mA continuous current
- \* P<sub>tot</sub> = 1 Watt

# ZTX558



### ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	V <sub>CBO</sub>	-400	V
Collector-Emitter Voltage	V <sub>CEO</sub>	-400	V
Emitter-Base Voltage	V <sub>EBO</sub>	-5	V
Continuous Collector Current	I <sub>C</sub>	-200	mA
Power Dissipation	P <sub>tot</sub>	1	W
Operating and Storage Temperature Range	T <sub>j:T<sub>stg</sub></sub>	-55 to +200	°C

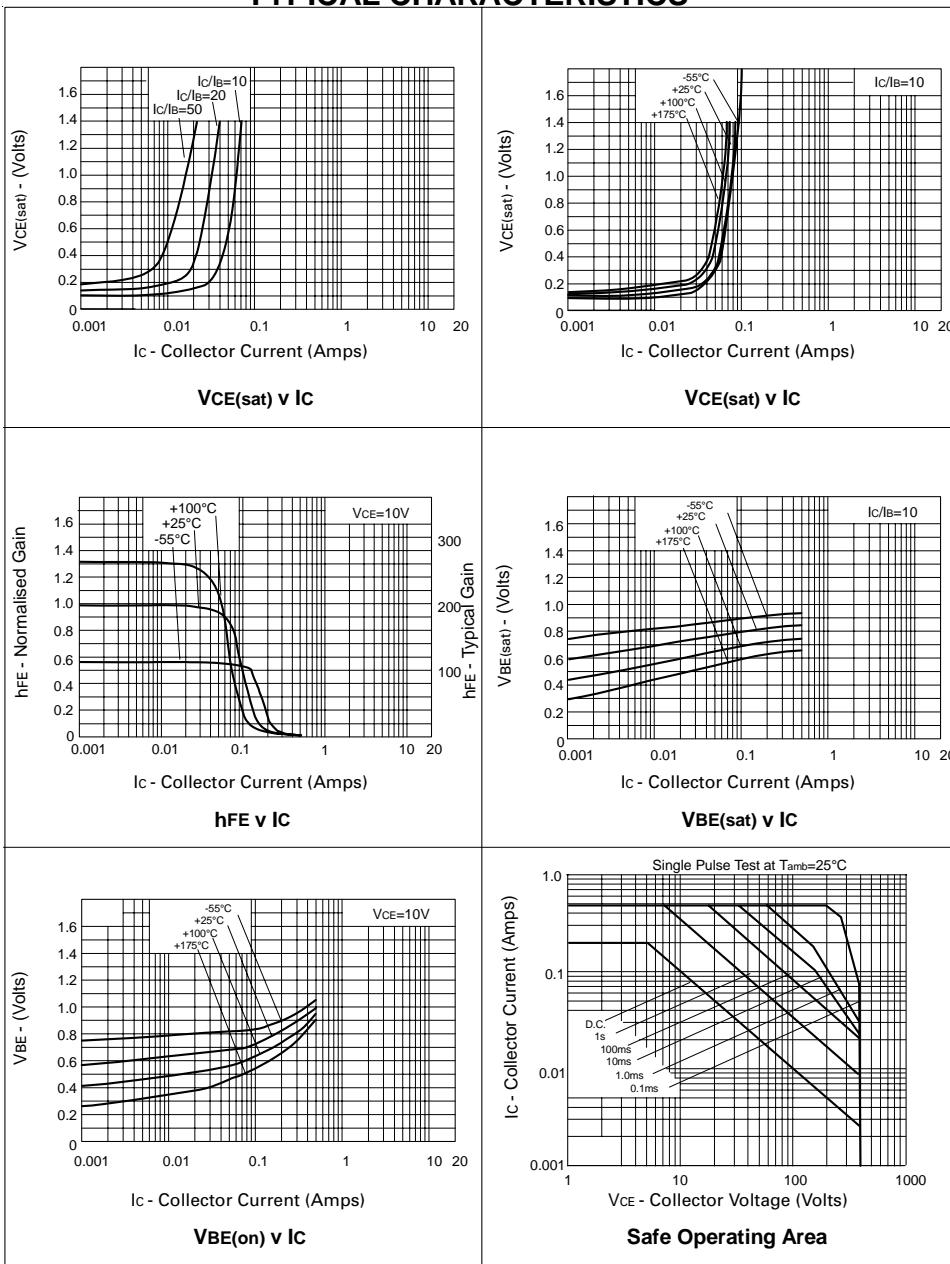
### ELECTRICAL CHARACTERISTICS (at T<sub>amb</sub> = 25°C).

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITIONS.
Collector-Base Breakdown Voltage	V <sub>(BR)CBO</sub>	-400			V	I <sub>C</sub> =100μA
Collector-Emitter Breakdown Voltage	V <sub>BR(CEO)</sub>	-400			V	I <sub>C</sub> =10mA*
Emitter-Base Breakdown Voltage	V <sub>(BR)EBO</sub>	-5			V	I <sub>E</sub> =100μA
Collector Cut-Off Current	I <sub>CBO</sub>			-100	nA	V <sub>CB</sub> =-320V
Collector Cut-Off Current	I <sub>CES</sub>			-100	nA	V <sub>CE</sub> =-320V
Emitter Cut-Off Current	I <sub>EBO</sub>			-100	nA	V <sub>EB</sub> =-4V
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>			-0.2 -0.5	V	I <sub>C</sub> =20mA, I <sub>B</sub> =2mA I <sub>C</sub> =50mA, I <sub>B</sub> =6mA
Base-Emitter Saturation Voltage	V <sub>BE(sat)</sub>			-0.9	V	I <sub>C</sub> =50mA, I <sub>B</sub> =5mA
Base-Emitter Turn On Voltage	V <sub>BE(on)</sub>			-0.9	V	I <sub>C</sub> =50mA, V <sub>CE</sub> =-10V
Static Forward Current Transfer Ratio	h <sub>FE</sub>	100 100 15		300		I <sub>C</sub> =1mA, V <sub>CE</sub> =-10V I <sub>C</sub> =50mA, V <sub>CE</sub> =-10V I <sub>C</sub> =100mA, V <sub>CE</sub> =-10V*
Transition Frequency	f <sub>T</sub>	50			MHz	I <sub>C</sub> =10mA, V <sub>CE</sub> =-20V f=20MHz
Collector-Base Breakdown Voltage	C <sub>obo</sub>			5	pF	V <sub>CB</sub> =-20V, f=1MHz
Switching times	t <sub>on</sub> t <sub>off</sub>			95 1600	ns ns	I <sub>C</sub> =50mA, V <sub>C</sub> =-100V I <sub>B1</sub> =5mA, I <sub>B2</sub> =-10mA

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

# ZTX558

## TYPICAL CHARACTERISTICS



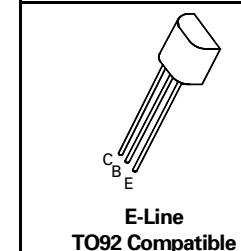
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Collector Cut-Off Current	I <sub>CES</sub>			-100	nA	V <sub>CE</sub> =-320V
Emitter Cut-Off Current	I <sub>EBO</sub>			-100	nA	V <sub>EB</sub> =-4V
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Transition Frequency	f <sub>T</sub>	50			MHz	I <sub>C</sub> =10mA, V <sub>CE</sub> =-20V f=20MHz
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\* Measured under pulsed conditions. Pulse width=300μs. Duty cycle ≤2%

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