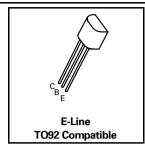
PNP SILICON PLANAR SMALL SIGNAL TRANSISTOR

ISSUE 1 - MARCH 94

ZTX500



ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	V _{CBO}	-25	V
Collector-Emitter Voltage	V _{CEO}	-25	V
Emitter-Base Voltage	V _{EBO}	-5	V
Continuous Collector Current	I _C	-500	mA
Power Dissipation at T _{amb} =25°C	P _{tot}	300	mW
Operating and Storage Temperature Range	T _j :T _{stg}	-55 to +175	°C

ELECTRICAL CHARACTERISTICS (at T_{amb} = 25°C).

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITIONS.
Collector-Base Breakdown Voltage	V _{(BR)CBO}	-25			V	I _C =-10μA
Collector-Emitter Sustaining Voltage	V _{CEO(sus)}	-25			V	I _C =-5mA
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	-5			V	I _E =-10μA
Collector Cut-Off Current	I _{CBO}			-0.2	μА	V _{CB} =-25V
Emitter Cut-Off Current	I _{EBO}			-0.2	μА	V _{EB} =-4V
Collector-Emitter Saturation Voltage	V _{CE(sat)}			-0.35	V	I _C =-50mA, I _B =-5mA*
Base-Emitter Saturation Voltage	V _{BE(sat)}	-0.65		-1	V	I _C =-10mA, I _B =-1mA*
Static Forward Current Transfer Ratio	h _{FE}	50		300		I _C =-10mA, V _{CE} =-6V*
Transition Frequency	f _T	150			MHz	I _C =-10mA, V _{CE} =-6V f=100MHz
Output Capacitance	C _{obo}			6	pF	V _{CB} =-6V, f=1MHz
Noise Figure	N		7		dB	I _C =-100μA, R _S =1.5KΩ f=1KHz

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TYPICAL CHARACTERISTICS

