

TO-92 Plastic-Encapsulate Transistors

ZTX450 TRANSISTOR (NPN)

FEATURES

- Low Breakdown Voltage
- General Purpose Amplifier Transistor

MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

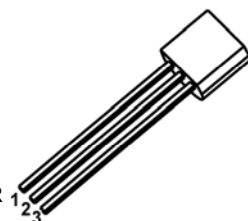
Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	60	V
V _{CEO}	Collector-Emitter Voltage	45	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current	1	A
P _C	Collector Power Dissipation	625	mW
R _{θJA}	Thermal Resistance From Junction To Ambient	200	°C/W
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55~+150	°C

To - 92

1.EMITTER

2.BASE

3.COLLECTOR



ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =100μA, I _E =0	60			V
Collector-emitter breakdown voltage	V _{(BR)CEO} *	I _C =10mA, I _B =0	45			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =100μA, I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =45V, I _E =0			0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =4V, I _C =0			0.1	μA
DC current gain	h _{FE(1)} *	V _{CE} =10V, I _C =150mA	100		300	
	h _{FE(2)} *	V _{CE} =10V, I _C =1A	15			
Collector-emitter saturation voltage	V _{CE(sat)} *	I _C =150mA, I _B =15mA			0.25	V
Base-emitter saturation voltage	V _{BE(sat)} *	I _C =150mA, I _B =15mA			1.1	V
Transition frequency	f _T	V _{CE} =10V, I _C =50mA, f=100MHz	150			MHz
Collector output capacitance	C _{ob}	V _{CB} =10V, I _C =0, f=1MHz			15	pF

*Pulse test