

ZTX450

NPN Silicon Plastic-Encapsulate Transistor

Features

- Capable of 0.625Watts of Power Dissipation.
- Collector Current: 1A
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking: ZTX450
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

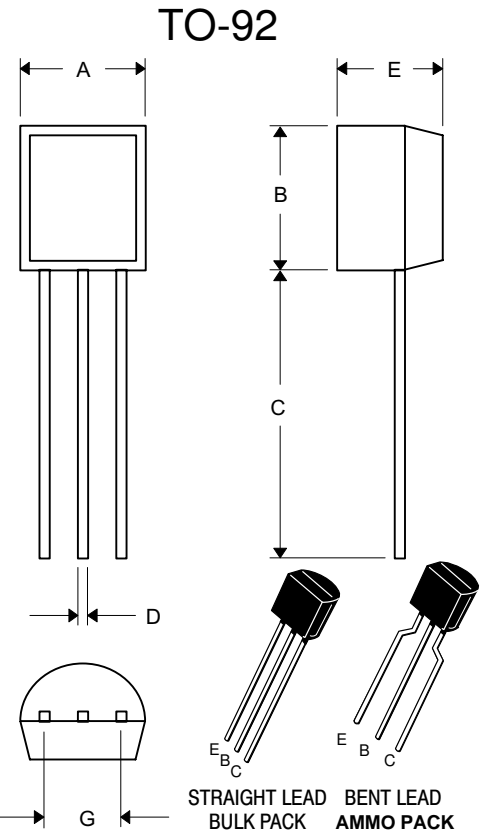
Symbol	Rating	Rating	Unit
V_{CE0}	Collector-Emitter Voltage	45	V
V_{CBO}	Collector-Base Voltage	60	V
V_{EBO}	Emitter-Base Voltage	5.0	V
I_C	Collector Current	1	A
P_D	Power Dissipation	0.625	W
T_J	Operating Junction Temperature	-55 to +150	°C
T_{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
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OFF CHARACTERISTICS

$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage* ($I_C=10mAdc, I_B=0$)	45	---	Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C=100uAdc, I_E=0$)	60	---	Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ($I_E=100uAdc, I_C=0$)	5.0	---	Vdc
I_{CBO}	Collector Cutoff Current ($V_{CB}=45Vdc, I_E=0$)	---	0.1	μAdc
I_{EBO}	Emitter Cutoff Current ($V_{EB}=4.0Vdc, I_C=0$)	---	0.1	μAdc
h_{FE1}	DC Current Gain ($I_C=150mAdc, V_{CE}=10Vdc$)	100	300	---
h_{FE2}	DC Current Gain ($I_C=1Adc, V_{CE}=10Vdc$)	15	---	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=150mAdc, I_B=15mAdc$)	---	0.25	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage ($I_C=150mAdc, I_B=15mAdc$)	---	1.1	Vdc
f_T	Transition Frequency ($V_{CE}=10V, I_C=50mA, f=100MHz$)	150	---	MHz
C_{ob}	Collector output capacitance ($V_{CB}=10V, f=1MHz$)		15	pF



DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.175	.185	4.45	4.70	
B	.175	.185	4.45	4.70	
C	.500	---	12.70	---	
D	.016	.020	0.41	0.63	
E	.135	.145	3.43	3.68	
G	.095	.105	2.42	2.67	Straight Lead
	.173	.220	4.40	5.60	Bent Lead

* For ammo packing detailed specification, click here to visit our website of product packaging for details.



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Ordering Information :

Device	Packing
Part Number-AP	Am mo Packing: 20Kpcs/Carton
Part Number-BP	Bulk: 100Kpcs/Carton

Note : Adding "-HF" suffix for halogen free, eg. Part Number-AP-HF

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