



Micro Commercial Components



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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 _{CEO}	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	uAdc
I _{EBO}	Emitter Cutoff Current (V _{EB} =4.0Vdc, I _C =0)	---	0.1	uAdc
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

TO-92

STRAIGHT LEAD BULK PACK BENT LEAD AMMO PACK

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	Ammo 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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