

Micro Commercial Components



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ZTX450

NPN Silicon Plastic-Encapsulate Transistor

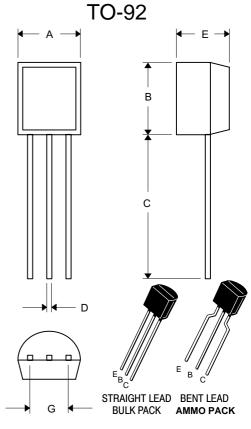
Features

- 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
- Moisure Sensitivity Level 1
- Marking: ZTX450 Halogen free available upon request by adding suffix "-HF"

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
Ic	Collector Current	1	Α
P_D	Power Dissipation	0.625	W
TJ	Operating Junction Temperature	-55 to +150	°C
T _{STG}	Storage Temperature	-55 to +150	$^{\circ}\mathbb{C}$

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter Min Max U					
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⊤	Transition Frequency (V _{CE} =10V, I _C =50mA, f=100MHz)	150		MHz		
Cob	Collector output capacitance (V _{CB} =10V, f=1MHz)	T	15	pF		



DIMENSIONS						
	INCHES		N	IM		
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.175	.185	4.45	4.70		
В	.175	.185	4.45	4.70		
O	.500	-	12.70			
D	.016	.020	0.41	0.63		
П	.135	.145	3.43	3.68		
G	.095	.105	2.42	2.67	Straight Lead	
G	.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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