

PZT2907A-TP Datasheet

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DiGi Electronics Part Number PZT2907A-TP-DG

Manufacturer Micro Commercial Co

Manufacturer Product Number PZT2907A-TP

Description TRANS PNP 60V 0.6A SOT223

Detailed Description Bipolar (BJT) Transistor PNP 60 V 600 mA 200MHz 1

W Surface Mount SOT-223

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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
PZT2907A-TP	Micro Commercial Co
Series:	Product Status:
	Active
Transistor Type:	Current - Collector (Ic) (Max):
PNP	600 mA
Voltage - Collector Emitter Breakdown (Max):	Vce Saturation (Max) @ lb, lc:
60 V	1.6V @ 50mA, 500mA
Current - Collector Cutoff (Max):	DC Current Gain (hFE) (Min) @ Ic, Vce:
10nA (ICBO)	100 @ 150mA, 10V
Power - Max:	Frequency - Transition:
1 W	200MHz
Operating Temperature:	Mounting Type:
-55°C ~ 150°C (TJ)	Surface Mount
Package / Case:	Supplier Device Package:
TO-261-4, TO-261AA	SOT-223
Base Product Number:	
PZT2907	

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8541.29.0075	



Features

- Halogen Free. "Green" Device (Note 1)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings @ 25°C Unless Otherwise Specified

Operating Junction Temperature Range: -55°C to +150°C

• Storage Temperature Range: -55°C to +150°C

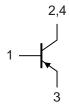
• Thermal Resistance: 125°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	-60	V
Collector-Emitter Voltage	V _{CEO}	-60	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current	I _C	-600	mA
Power Dissipation	P _D	1	W

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

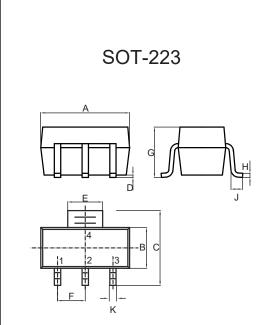
Marking: ZT2907A

Internal Structure



1.BASE 2,4.COLLECTOR 3.EMITTER

PNP Plastic Encapsulate Transistors



DIMENSIONS						
DIM	INC	INCHES MM		М	NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOIL	
Α	0.248	0.264	6.30	6.70		
В	0.130	0.146	3.30	3.70		
С	0.264	0.287	6.70	7.30		
D	0.001	0.004	0.02	0.10		
E	0.114	0.122	2.90	3.10		
F	0.0	91	2.3	30	TYP.	
G		0.071		1.80		
Н	0.009	0.014	0.23	0.35		
J	0.030		0.75			
K	0.026	0.033	0.66	0.84		



Electrical Characteristics @ 25°C Unless Otherwise Specified

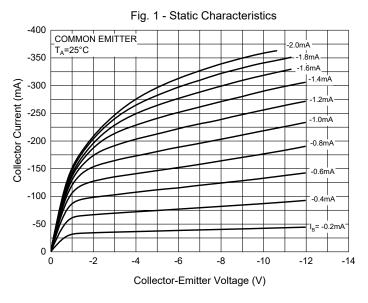
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	-60			V	$I_C=-1$ mA, $I_E=0$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-60			V	I _C =-10mA, I _B =0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5			V	I_E =-1mA, I_C =0
Collector-Base Cutoff Current	I _{CBO}			-10	nA	V _{CB} =-50V, I _E =0
Emitter-Base Cutoff Current	I _{EBO}			-10	nA	V_{EB} =-5V, I_{C} =0
	h _{FE(1)}	75				V _{CE} =-10V, I _C =-0.1mA
	h _{FE(2)}	100				V_{CE} =-10V, I_{C} =-1mA
DC Current Gain ^(Note 2)	h _{FE(3)}	100				V _{CE} =-10V, I _C =-10mA
	h _{FE(4)}	100		300		V _{CE} =-10V, I _C =-150mA
	h _{FE(5)}	50				V _{CE} =-10V, I _C =-500mA
Callector Emitter Seturation Voltage	V _{CE(sat)}			-0.4	V	I _C =-150mA, I _B =-15mA
Collector-Emitter Saturation Voltage				-1.6	V	I _C =-500mA, I _B =-50mA
Daniel Frankling Octobrilla Vallage	V _{BE(sat)}			-1.3	V	I _C =-150mA, I _B =-15mA
Base-Emitter Saturation Voltage				-2.6	V	I _C =-500mA, I _B =-50mA
Transition Frequency	f _T	200			MHz	V _{CE} =-10V, I _C =-20mA, f=100MHz
Output Capacitance	C_cbo			8	pF	V _{CB} =-10V, I _E =0, f=1MHz,
Input Capacitance	C_{ibo}			30	pF	V_{EB} =-2V, I_C =0, f=1MHz,
Delay Time	t _d			12	ns	
Rise Time	t _r			30	ns	
Turn On Time	t _{on}			40	ns	V _{CC} =-30V, I _C =-150mA,
Storage Time	t _s			300	ns	I _{B1} =-I _{B2} =-15mA
Fall Time	t _f			65	ns	
Turn Off Time	t _{off}			365	ns	

Note: 2.Pluse Width \leq 300 μ s, Duty Cycle \leq 2.0%

1000



Curve Characteristics



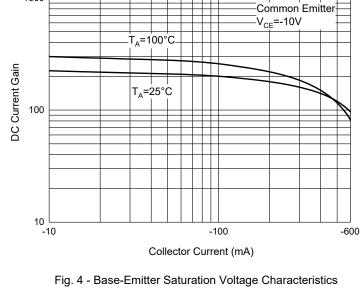
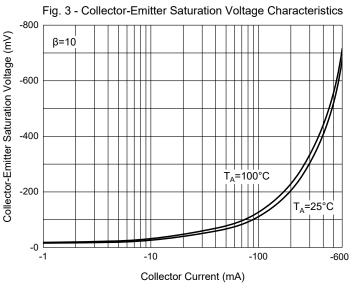
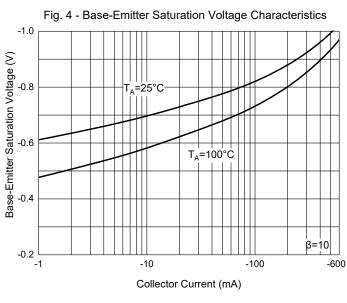
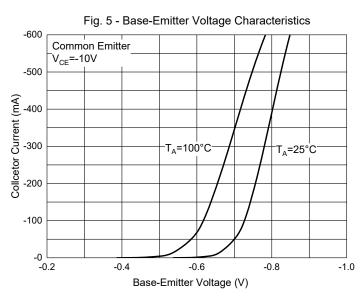
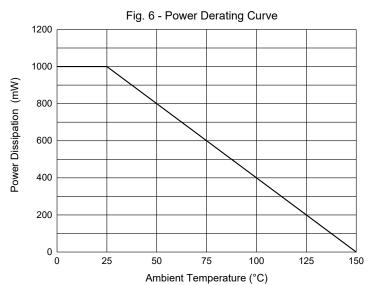


Fig. 2 - DC Current Gain Characteristics











Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 2.5Kpcs/Reel

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