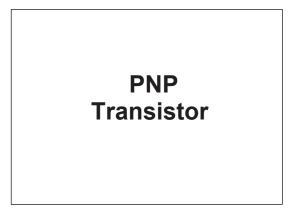


Features

- Halogen Free. "Green" Device (Note 1)
- · Moisture Sensitivity Level 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

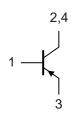
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	-100	V
Collector-Emitter Voltage	V _{CEO}	-100	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current	I _C	-4.1	Α
Power Dissipation	P _D	0.5	W

Thermal characteristics

Parameter	Symbol	Rating	Unit		
Junction Temperature Range	T _J	-55~+150	°C		
Storage Temperature Range	T _{STG}	-55~+150	°C		
Thermal Resistance from Junction to Ambient	Rth _(J-A)	250	°C/W		
Thermal Resistance from Junction to Case	Rth _(J-C)	50	°C/W		

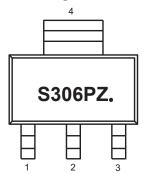
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

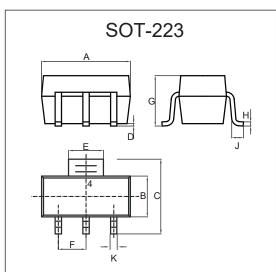
Internal Structure



1.Base 2,4.Collector 3.Emitter

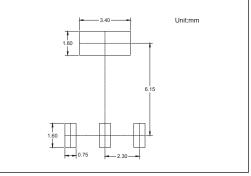
Marking Code





DIMENSIONS					
DIM	INCHES		М	M	NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
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	
Е	0.114	0.122	2.90	3.10	
F	0.091		2.30		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	

Suggested Solder Pad Layout



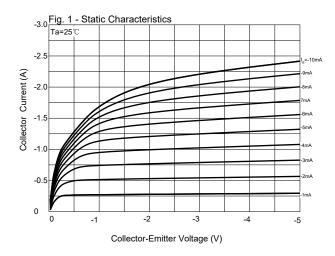


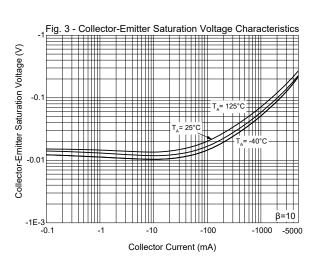
Electrical Characteristics @ 25°C Unless Otherwise Specified

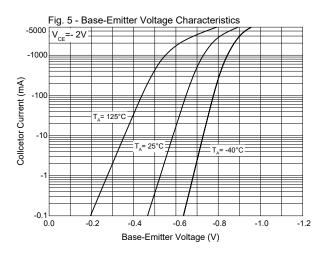
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	-100			V	I _C =-1mA, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	-100			V	I _C =-1mA, I _B =0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5			V	I _E =-100μA, I _C =0
Collector-Base Cutoff Current	I _{CBO}			-100	nA	V _{CB} =-80V, I _E =0
Emitter-Base Cutoff Current	I _{EBO}			-100	nA	V_{EB} =-5V, I_C =0
	h _{FE(1)}	200				V _{CE} =-2V, I _C =-0.5A
DC Current Gain	h _{FE(2)}	150				V _{CE} =-2V, I _C =-1A
	h _{FE(3)}	100				V _{CE} =-2V, I _C =-2A
	h _{FE(4)}	25				V _{CE} =-2V, I _C =-4A
Collector-Emitter Saturation Voltage	V _{CE(sat)}			-60	mV	I _C =-0.5A, I _B =-50mA
				-130	mV	I _C =-1A, I _B =-50mA
				-300	mV	I _C =-4A, I _B =-400mA
Base-Emitter Saturation Voltage	V _{BE(sat)}			-0.9	V	I _C =-1A, I _B =-100mA
				-1.1	V	I _C =-4A, I _B =-400mA
Base-Emitter Voltage	V _{BE}			-0.9	V	V _{CE} =-2V, I _C =-2A
Transition Frequency	f _T		100		MHz	V _{CE} =-10V, I _C =-100mA, f=100MHz
Output Capacitance	C _{ob}		45		pF	V _{CB} =-10V, I _E =0, f=1MHz

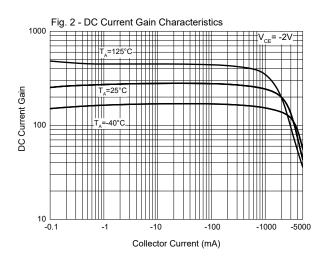


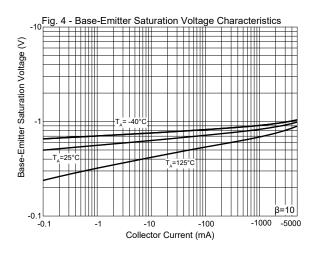
Curve Characteristics

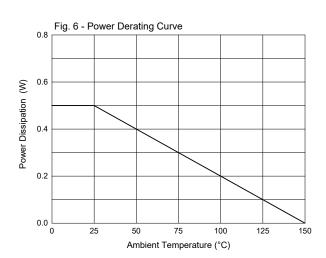














Ordering Information

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

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