

Features

- · Low Collector-Emitter Saturation Voltage
- 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)

PNP General Purpose Amplifier

Maximum Ratings @ 25°C Unless Otherwise Specified

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	-50	V
Collector-Emitter Voltage	V _{CEO}	-50	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current	Ic	-3	Α
Power Dissipation	P_{D}	500	mW

Thermal characteristics

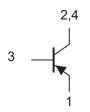
Parameter	Symbol	Rating	Unit
Junction Temperature Range	T _J	-55~+150	°C
Storage Temperature Range	T _{STG}	-55~+150	°C
Thermal Resistance from Junction to Ambient	Rth _(J-A)	250	°C/W

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

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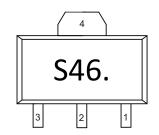
DIMENSIONS					
DIM INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.169	0.185	4.30	4.70	
В	0.061		1.	55	TYP.
C	0.154	0.171	3.91	4.35	
D	0.031	0.047	0.80	1.20	
Е	0.089	0.104	2.25	2.65	
F	0.118		3.00		TYP.
G	0.013	0.020	0.33	0.52	
Η	0.015	0.021	0.38	0.53	
J	0.014	0.017	0.35	0.44	
K	0.055	0.063	1.40	1.60	
L	0.059		1.50		TYP.
М	0.1	0.108		75	TYP.

Internal Structure

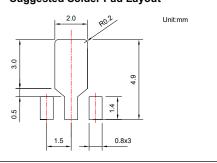


3.BASE 2,4.COLLECTOR 1.EMITTER

Marking Code



Suggested Solder Pad Layout



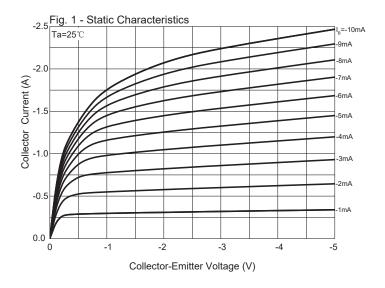


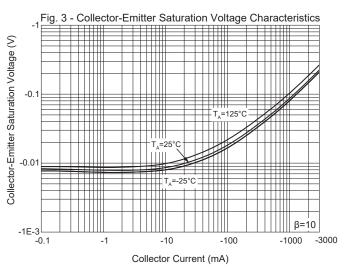
Electrical Characteristics @ 25°C Unless Otherwise Specified

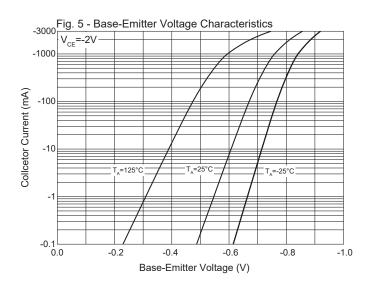
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	-50			V	I _C =-100uA, I _E =0
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-50			V	I _C =-10mA, I _B =0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5			V	I _E =-100uA, I _C =0
Collector-Base Cutoff Current	I _{CBO}			-100	nA	V_{CB} =-50V, I_{E} =0
Emitter-Base Cutoff Current	I _{EBO}			-100	nA	V _{. B} =-5V, I _C =0
Collector-Emitter Cutoff Current	I _{CES}			-100	nA	V_{CE} =-50V, V_{BE} =0
	h _{FE(1)}	200				V_{CE} =-2V, I_{C} =-500mA
DC Current Gain	h _{FE(2)}	200				V_{CE} =-2V, I_{C} =-1A
	h _{FE(3)}	100				V_{CE} =-2V, I_{C} =-2A
Collector-Emitter Saturation Voltage	V _{CE(sat)1}			-90	mV	I _C =-500mA, I _B =-50mA
	V _{CE(sat)2}			-180	mV	I _C =-1A, I _B =-50mA
	V _{CE(sat)3}			-320	mV	I _C =-2A, I _B =-100mA
	V _{CE(sat)4}			-270	mV	I _C =-2A, I _B =-200mA
	V _{CE(sat)5}			-390	mV	I _C =-3A, I _B =-300mA
Base-Emitter Saturation Voltage	V _{BE(sat)1}			-1.1	V	I _C =-2A, I _B =-100mA
	V _{BE(sat)2}			-1.2	V	I _C =-3A, I _B =-300mA
Base-Emitter Turn-on Voltage	$V_{BE(on)}$			-1.1	V	I _C =-1A, V _{CE} =-2V
Transition Frequency	f _T	100			MHz	V _{CE} =-5V, I _C =-100mA, f=100MHz
Collector Capacitance	C _{ob}			45	pF	V _{CB} =-10V, I _E =0, f=1MHz

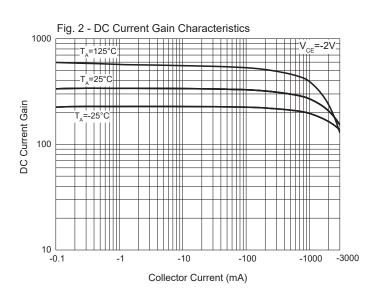


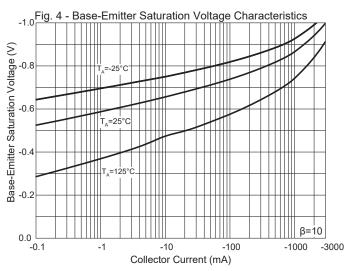
Curve Characteristics

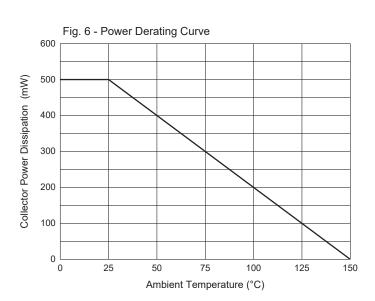














Ordering Information

Device	Packing		
Part Number-TP	Tape&Reel: 1Kpcs/Reel		

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