

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)

PNP General Purpose Amplifier

Maximum Ratings @ 25°C Unless Otherwise Specified

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	-40	V
Collector-Emitter Voltage	V _{CEO}	-40	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current	I _C	-200	mA
Power Dissipation	P _D	300	mW

Thermal characteristics

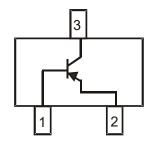
Parameter	Symbol	Rating	Unit
Operating Junction Temperature Range	T _{OPR}	-55~+150	°C
Storage Temperature Range	T _{STR}	-55~+150	°C
Thermal Resistance from Junction to Ambient	Rth _(j-a)	417	°C/W

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

SOT-23

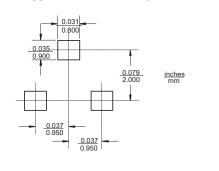
DIMENSIONS										
DIM	INC	HES	M	M	NOTE					
DIIVI	MIN	MAX	(MIN M		NOTE					
Α	0.110	0.120	2.80	3.04						
В	0.083	0.104	2.10	2.64						
С	0.047	0.055	1.20	1.40						
D	0.034	0.041	0.85	1.05						
Е	0.067	0.083	1.70	2.10						
F	0.018	0.024	0.45	0.60						
G	0.0004	0.006	0.01	0.15						
Н	0.035	0.043	0.90	1.10						
J	0.003	0.007	0.08	0.18						
K	0.014	0.020	0.35	0.51						
L	0.007	0.020	0.20	0.50						

Internal Structure



1.BASE 2.EMITTER 3.COLLECTOR

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}	-40			V	I _C =-10μA, I _E =0
Collector-Emitter Breakdown Voltage ⁽²⁾	V _{(BR)CEO}	-40			V	I _C =-1mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	-5			V	I _E =-10μA, I _C =0
Collector-Base Cutoff Current	I _{CBO}			-100	nA	V _{CB} =-40V, I _E =0
Collector Cutoff Current	I _{CEX}			-50	nA	V _{CE} =-30V, V _{BE} =-3V
Emitter-Base Cutoff Current	I _{EBO}			-100	nA	V_{EB} =-5V, I_{C} =0
	h _{FE(1)}	100		300		V_{CE} =-1V, I_{C} =-10mA
DC Current Gain ⁽²⁾	h _{FE(2)}	60				V_{CE} =-1V, I_{C} =-50mA
	h _{FE(3)}	30				V_{CE} =-1V, I_{C} =-100mA
Callegter Emitter Saturation Valtage	\/			-0.25	V	I _C =-10mA, I _B =-1mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			-0.4	V	I _C =-50mA, I _B =-5mA
Dana Fraittay Catawatian Valtaga	V	-0.65		-0.85	V	I _C =-10mA, I _B =-1mA
Base-Emitter Saturation Voltage	V _{BE(sat)}			-0.95	V	I _C =-50mA, I _B =-5mA
Transition Frequency	f _T	250			MHz	V _{CE} =-20V, I _C =-10mA, f=100MHz
Output Capacitance	C _{cbo}			4.5	pF	V_{CB} =-5V, I_E =0, f=1MHz
Input Capacitance	C _{ibo}			10	pF	V_{BE} =-0.5V, I_{C} =0, f=1MHz
Noise Figure	NF			4	dB	V_{CE} =-5V, I_C =100 μ A, R_S =1K, f=1KHz
Delay Time	t _d			35	ns	V_{CC} =-3V, I_{C} =-10mA
Rise Time	t _r			35	ns	V _{BE} =-0.5V, I _{B1} =I _{B2} =-1mA
Storage Time	t _s			225	ns	V _{CC} =-3V, I _C =-10mA
Fall Time	t _f			75	ns	I _{B1} =I _{B2} =-1mA

Note: 2. Pulse Width ≤ 300µs, Duty Cycle≤2.0%

Marking Information



2A = Product Type Marking Code Y=Date Code Marking

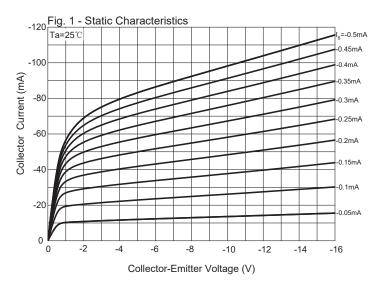
Date code Key (2 years a cycle)

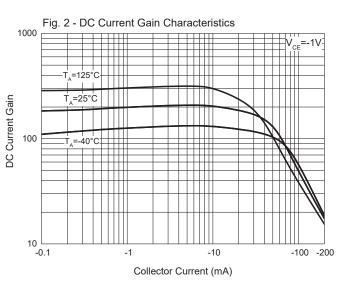
Year							2011					
Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Code	J	0	L	С	K	В	Р	D	М	Е	G	F

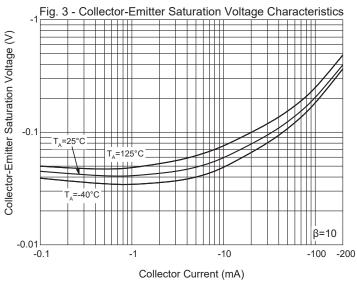
Year		2012										
Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Code	W	N	Υ	Т	R	Н	Α	I	U	Х	Z	S

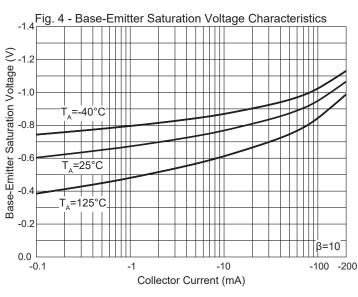


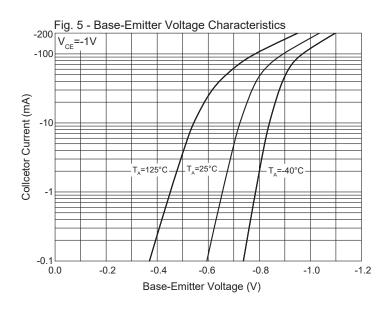
Curve Characteristics

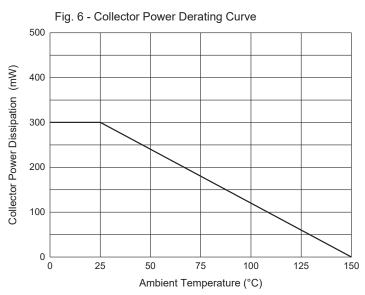














Ordering Information

Device	Packing			
Part Number-TP	Tape&Reel: 3Kpcs/Reel			

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