

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

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 833°C/W Junction to Ambient

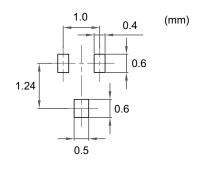
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	-60	V
Collector-Emitter Voltage	V _{CEO}	-60	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current	I _C	-600	mA
Collector Power Dissipation	P _C	150	mW

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-523

DIMENSIONS					
DIM INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.059	0.067	1.50	1.70	
В	0.030	0.033	0.75	0.85	
С	0.057	0.069	1.45	1.75	
D	0.020		0.50		TYP.
Е	0.035	0.043	0.90	1.10	
G	0.000	0.004	0.00	0.10	
Н	0.024	0.031	0.60	0.80	
J	0.004	0.008	0.10	0.20	
K	0.006	0.014	0.15	0.35	

Suggested Solder Pad Layout



Internal Structure



Marking: 2F



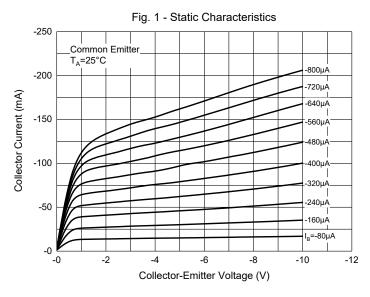
Electrical Characteristics @ 25°C Unless Otherwise Specified

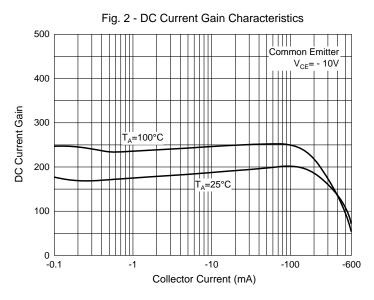
Parameter	Symbol	Min	Тур	Max	Units	Conditions	
Collector-Base Breakdown Voltage	V _{(BR)CBO}	-60			V	I _C =-10μA, I _E =0	
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	-60			V	I _C =-10mA, I _B =0	
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5			V	I _E =-10μA, I _C =0	
Collector-Base Cutoff Current	I _{CBO}			-10	nA	V _{CB} =-50V, I _E =0	
Emitter-Base Cutoff Current	I _{EBO}			-10	nA	V_{EB} =-4V, 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 ^(Note2)	h _{FE(3)}	100		300		V _{CE} =-10V, I _C =-10mA	
	h _{FE(4)}	100				V _{CE} =-10V, I _C =-150mA	
	h _{FE(5)}	50				V _{CE} =-10V, I _C =-500mA	
Collector-Emitter Saturation Voltage	V _{CE(sat)}			-0.4	V	I _C =-150mA, I _B =-15mA	
				-1.6	V	I _C =-500mA, I _B =-50mA	
Raco Emittor Saturation Voltage	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		140		MHz	V _{CE} =-12V, I _C =-2mA, f=30MHz	
Output Capacitance	C _{cbo}			5	pF	V _{CB} =-12V, I _E =0, f=100KHz	
Turn on Time	t _{on}			45	ns	V = 20V L = 150m A	
Delay Time	t _d			10	ns	-V _{CC} =-30V, I _C =-150mA -I _{B1} =-15mA	
Rise Time	t _r			40	ns		
Turn off Time	t _{off}			100	ns	\/ - 6\/ - 150mA	
Storage Time	t _s			80	ns	-V _{CC} =-6V, I _C =-150mA -I _{B1} =I _{B2} =-15mA	
Fall Time	t _f			30	ns		

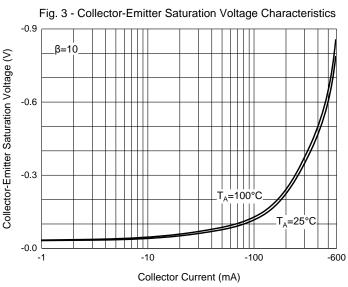
Note: 2. Pulse Width ≤ 300µs, Duty Cycle≤2.0%

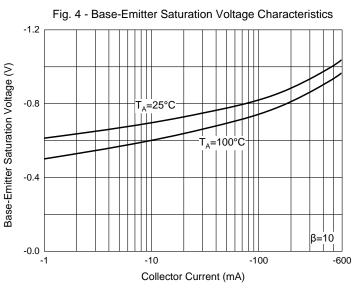


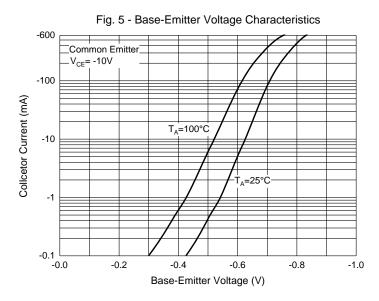
Curve Characteristics

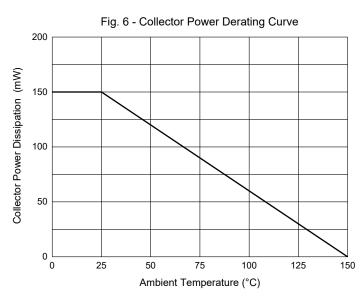














Ordering Information

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

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