

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

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 357°C/W Junction to Ambient (Note 2)

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
Continuous Collector Current	I _C	-600	mA
Power Dissipation	P _D	350	mW

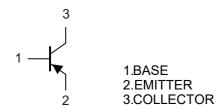
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

2.For the Device Mounted on 15mm x 15mm x 1.6mm FR4 PCB with

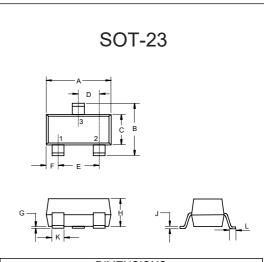
High Coverage of Single Sided 1oz Copper, in Still Air Conditions.

Marking: 2T

Internal Structure

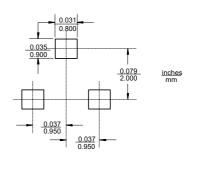


PNP General Purpose Amplifier



DIMENSIONS					
DIM INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	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	0.012	0.020	0.30	0.51	
L	0.007	0.020	0.20	0.50	

Suggested Solder Pad Layout





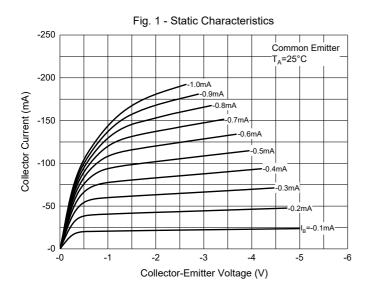
Electrical Characteristics @ T_A =25°C Unless Otherwise Specified

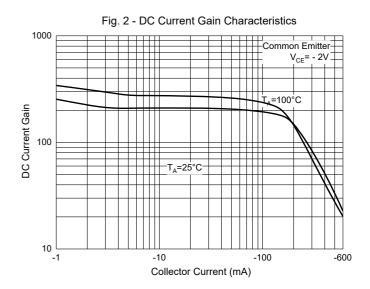
Parameter	Symbol	Min	Тур	Max	Units	Conditions	
Collector-Base Breakdown Voltage	V _{(BR)CBO}	-40			V	I _C =-100μA, I _E =0	
Collector-Emitter Breakdown Voltage ⁽³⁾	V _{(BR)CEO}	-40			V	I _C =-1mA, I _B =0	
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5			V	I _E =-100μA, I _C =0	
Base Cutoff Current	I _{BL}			-0.1	μA	V _{CE} =-30V, V _{BE} =-3V	
Collector Cutoff Current	I _{CEX}			-0.1	μA	V _{CE} =-30V, V _{BE} =-3V	
DC Current Gain ⁽³⁾	h _{FE(1)}	30				V _{CE} =-1V, I _C =-0.1mA	
	h _{FE(2)}	60				V _{CE} =-1V, I _C =-1mA	
	h _{FE(3)}	100				V _{CE} =-1V, I _C =-10mA	
	h _{FE(4)}	100		300		V _{CE} =-2V, I _C =-150mA	
	h _{FE(5)}	20				V _{CE} =-2V, I _C =-500mA	
Collector-Emitter Saturation Voltage	V _{CE(sat)}			-0.4	V	I _C =-150mA, I _B =-15mA	
				-0.75	V	I _C =-500mA, I _B =-50mA	
Base-Emitter Saturation Voltage	V _{BE(sat)}		-0.75	-0.95	V	I _C =-150mA, I _B =-15mA	
				-1.3	V	I _C =-500mA, I _B =-50mA	
Transition Frequency	f _T	200			MHz	V _{CE} =-10V, I _C =-20mA, f=100MHz	
Delay Time	t _d			15	ns	V_{CC} =-30V, V_{BE} =-0.5V, I_{C} =-150mA, I_{B1} =-15mA	
Rise Time	t _r			20	ns		
Storage Time	t _s			225	ns	V _{CC} =-30V, I _C =-150mA, I _{B1} =I _{B2} =-15mA	
Fall Time	t _f			30	ns		
Collector-Base Capacitance	C _{cb}			8.5	pF	V _{CB} =-10V, I _E =0,f=1MHz	
Emitter-Base Capacitance	C _{eb}			30	pF	V _{EB} =-0.5V, I _C =0, f=1MHz	

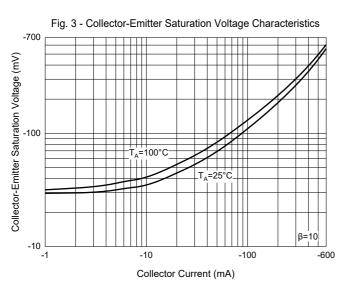
Note :3. Pulse test: Pulse Width≤300µs,Duty Cycle≤2.0%.

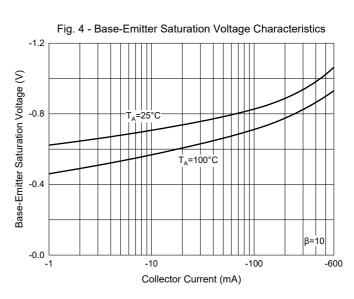


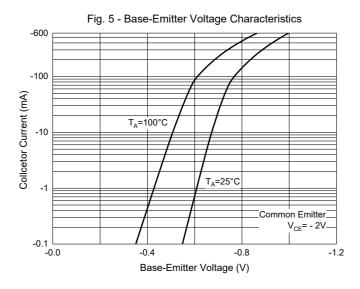
Curve Characteristics

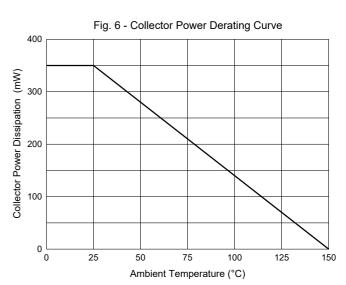














Ordering Information

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

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