

Features

- Halogen Free. "Green" Device (Note 1)
- AEC-Q101 Qualified
- 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	Ι _C	-600	mA
Power Dissipation	PD	350	mW

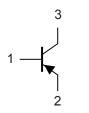
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

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.

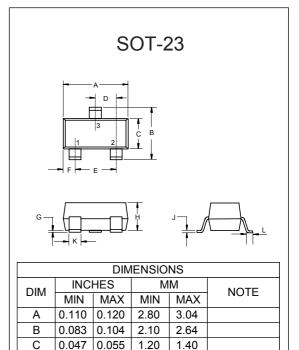
Marking: 2T

Internal Structure



1.BASE
2.EMITTER
3.COLLECTOR

PNP General Purpose Amplifier



0.85

1.70

0.45

0.01

0.90

0.08

0.30

0.20

Suggested Solder Pad Layout

0.037

1.05

2.10

0.60

0.15

1.10

0.18

0.51

0.50

2.000

inches mm

D

Е

F

G

Н

J

Κ

L

0.034 0.041

0.067 0.083

0.018 0.024

0.0004 0.006

0.035 0.043

0.003 0.007

0.012 0.020

0.007 0.020

<u>0.037</u> 0.950



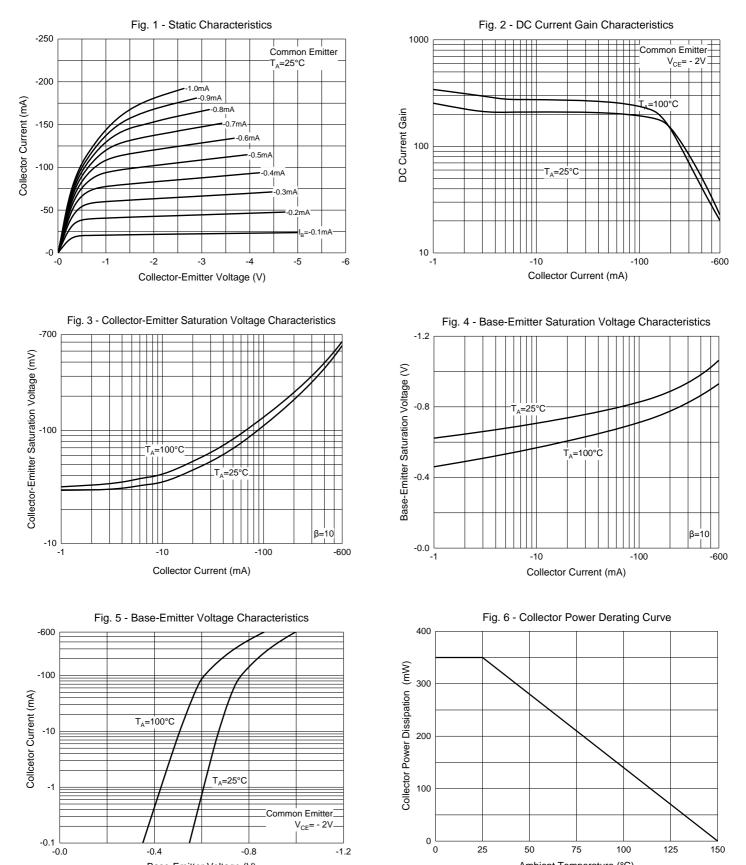
Electrical Characteristics @ $T_A\!\!=\!\!25^\circ\!C$ Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Мах	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	Ι _E =-100μΑ, Ι _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 \leq 300µs,Duty Cycle \leq 2.0%.



Curve Characteristics



Base-Emitter Voltage (V)



Ordering Information

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

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