

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: 556°C/W Junction to Ambient^(Note 2)
- Thermal Resistance: 417°C/W Junction to Ambient^(Note 3)

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	-300	V
Collector-Emitter Voltage	V _{CEO}	-300	V
Emitter-Base Voltage	V_{EBO}	-5	V
Continuous Collector Current	I _C	-300	mA
Peak Collector Current	I _{CM}	-500	mA
Power Dissipation ^(Note 2)	P _D	225	mW
Power Dissipation ^(Note 3)	P _D	300	mW

Note:

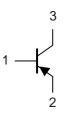
1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

2. Device Mounted on FR-5 Board.

3. Device with Alumina Substrate.

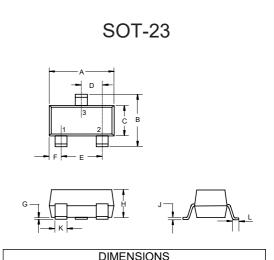
Marking: 2D

Internal Structure



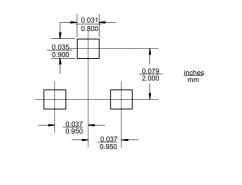
1.BASE
2.EMITTER
3.COLLECTOR

PNP Silicon High Voltage Transistor



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	
E	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



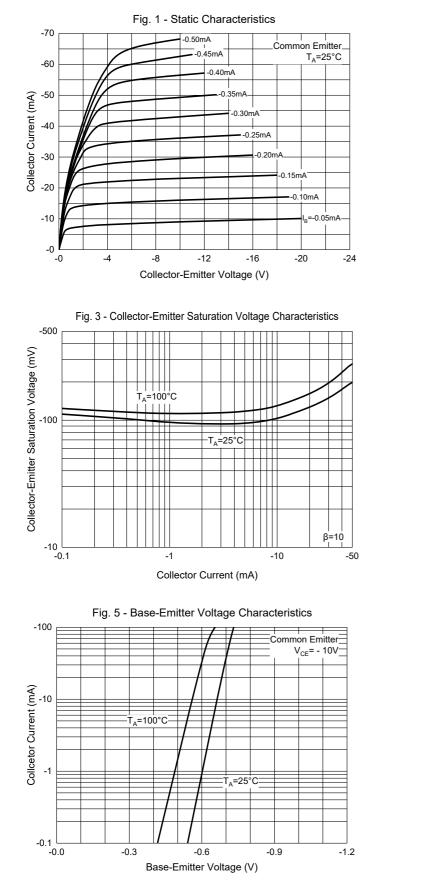


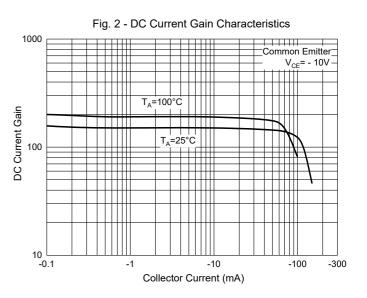
Electrical Characteristics @ $T_A=25$ °C Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	-300			V	I _C =-100μΑ, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	-300			V	I _C =-1mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	-5			V	I _E =-100μΑ, I _C =0
Collector Cutoff Current	I _{CBO}			-0.25	μA	V _{CB} =-200V, I _E =0
Emitter Cutoff Current	I _{EBO}			-0.1	μA	V_{EB} =-5V, I_{C} =0
	h _{FE(1)}	60				V _{CE} =-10V, I _C =-1mA
DC Current Gain	h _{FE(2)}	100		200		V _{CE} =-10V, I _C =-10mA
	h _{FE(3)}	60				V _{CE} =-10V, I _C =-30mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			-0.2	V	I _C =-20mA, I _B =-2mA
Base-Emitter Saturation Voltage	V _{BE(sat)}			-0.9	V	I _C =-20mA, I _B =-2mA
Transition Frequency	f _T	50			MHz	V _{CE} =-20V, I _C =-10mA, f=30MHz
Collector output Capacitance	C _{cb}			6	pF	V _{CB} =-20V, I _E =0,f=1MHz

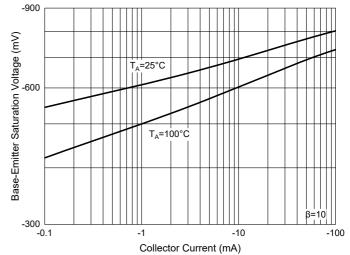


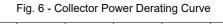
Curve Characteristics

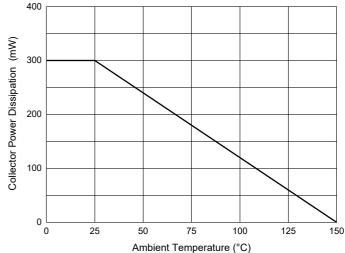














Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel
Part Number-13P	Tape&Reel: 10Kpcs/Reel

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