

#### **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)

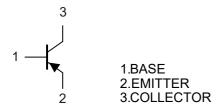
#### Maximum Ratings @ 25°C Unless Otherwise Specified

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 625°C/W Junction to Ambient

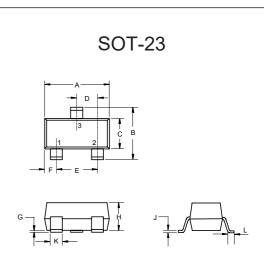
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V <sub>CBO</sub>	-40	V
Collector-Emitter Voltage	$V_{CEO}$	-32	V
Emitter-Base Voltage	$V_{EBO}$	-5	V
Continuous Collector Current	I <sub>C</sub>	-800	mA
Power Dissipation	$P_{D}$	200	mW

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

#### **Internal Structure**

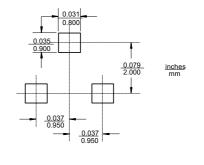


# PNP Silicon Epitaxial Transistors



DIMENSIONS					
DIM INCHES		HES	M	М	NOTE
DIIVI	MIN M	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

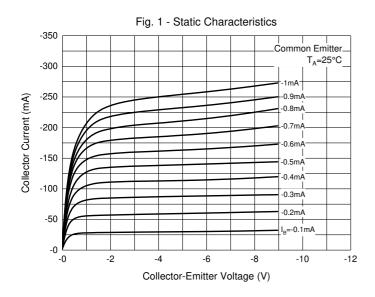
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	-40			V	I <sub>C</sub> =-50μA, I <sub>E</sub> =0
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-32			V	I <sub>C</sub> =-1mA, I <sub>B</sub> =0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5			V	$I_{E}$ =-50 $\mu$ A, $I_{C}$ =0
Collector-Base Cutoff Current	I <sub>CBO</sub>			-0.5	μA	V <sub>CB</sub> =-20V, I <sub>E</sub> =0
Emitter-Base Cutoff Current	I <sub>EBO</sub>			-0.5	μA	$V_{EB}$ =-4V, $I_C$ =0
DC Current Gain	h <sub>FE</sub>	82		390		$V_{CE}$ =-3V, $I_{C}$ =-100mA
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>			-0.5	V	I <sub>C</sub> =-500mA, I <sub>B</sub> =-50mA
Transition Frequency	f <sub>T</sub>	50			MHz	V <sub>CE</sub> =-5V,I <sub>C</sub> =-50mA,f=100MHz

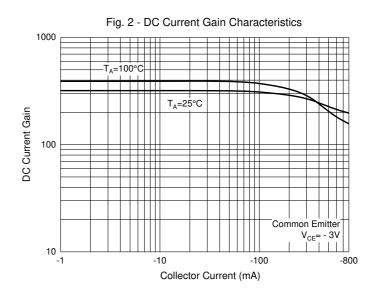
### Classification of h<sub>FE</sub>

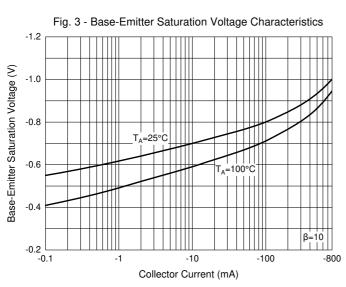
Rank	Р	Q	R
Range	82-180	120-270	180-390
Marking	AHP	AHQ	AHR

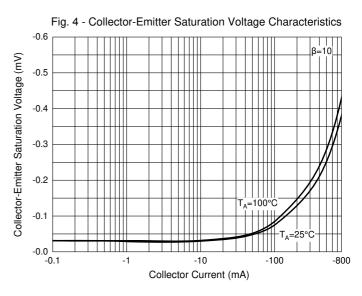


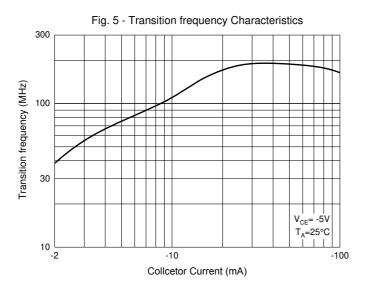
#### **Curve Characteristics**

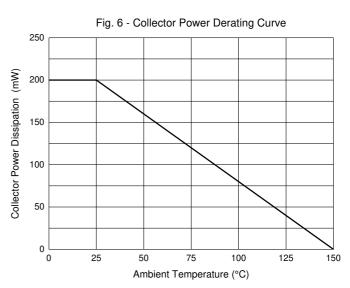














#### **Ordering Information**

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

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