

### Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- 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)

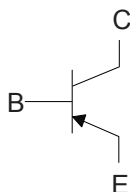
### Maximum Ratings @ 25°C Unless Otherwise Specified

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 125°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	$V_{CBO}$	-40	V
Collector-Emitter Voltage	$V_{CEO}$	-25	V
Emitter-Base Voltage	$V_{EBO}$	-5	V
Continuous Collector Current	$I_C$	-1.5	A
Power Dissipation@ $T_A=25^\circ\text{C}$	$P_D$	1	W

Marking:8550SS

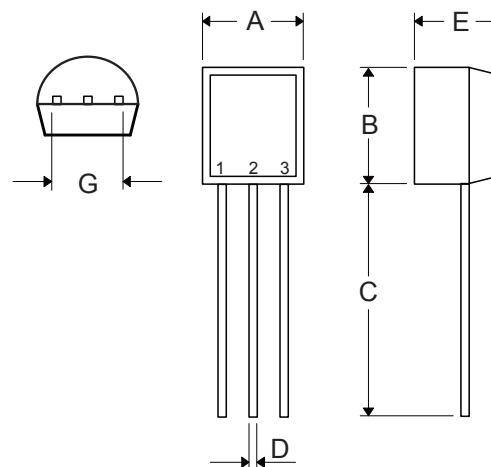
### Internal Structure



1.EMITTER  
2.COLLECTOR  
3.BASE

## PNP Silicon Transistors

### TO-92



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.169	0.185	4.30	4.70	
B	0.169	0.185	4.30	4.70	
C	0.500	-----	12.70	-----	
D	0.015	0.022	0.38	0.55	
E	0.130	0.146	3.30	3.70	
G	0.095	0.105	2.42	2.67	Straight Lead
	0.173	0.220	4.40	5.60	Bent

Electrical Characteristics @  $T_A=25^\circ\text{C}$  Unless Otherwise Specified

Parameter	Symbol	Min	Typ	Max	Units	Conditions
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	-40			V	$I_C=-100\mu\text{A}, I_E=0$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-25			V	$I_C=-0.1\text{mA}, I_B=0$
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5			V	$I_E=-100\mu\text{A}, I_C=0$
Collector Cut-off Current	$I_{CBO}$			-0.1	$\mu\text{A}$	$V_{CB}=-40\text{V}, I_E=0$
Collector Cut-off Current	$I_{CEO}$			-0.1	$\mu\text{A}$	$V_{CE}=-20\text{V}, I_B=0$
Emitter Cut-off Current	$I_{EBO}$			-0.1	$\mu\text{A}$	$V_{EB}=-5\text{V}, I_C=0$
DC Current Gain	$h_{FE(1)}$	120		300		$V_{CE}=-1\text{V}, I_C=-100\text{mA}$
	$h_{FE(2)}$	40				$V_{CE}=-1\text{V}, I_C=-800\text{mA}$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$			-0.5	V	$I_C=-800\text{mA}, I_B=-80\text{mA}$
Base-Emitter Saturation Voltage	$V_{BE(sat)}$			-1.2	V	$I_C=-800\text{mA}, I_B=-80\text{mA}$
Transition Frequency	$f_T$	100			MHz	$V_{CE}=-10\text{V}, I_C=-50\text{mA}, f=30\text{MHz}$

 Classification of  $h_{FE(1)}$ 

Rank	C	D
Range	120-200	160-300

**Curve Characteristics**

Fig. 1 - Static Characteristics

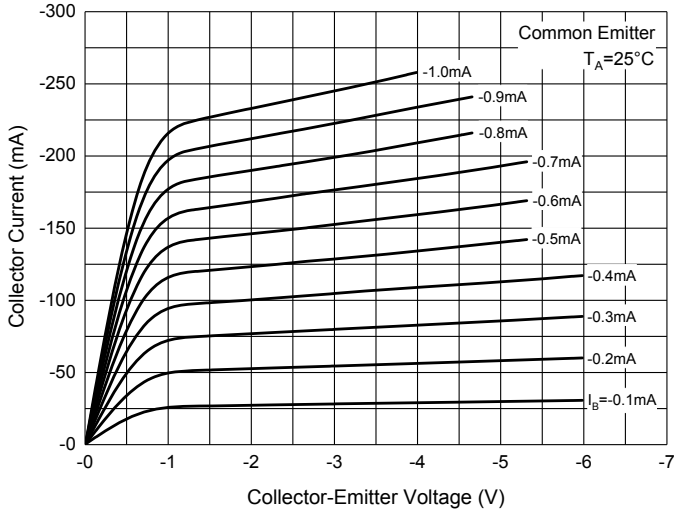


Fig. 2 - DC Current Gain Characteristics

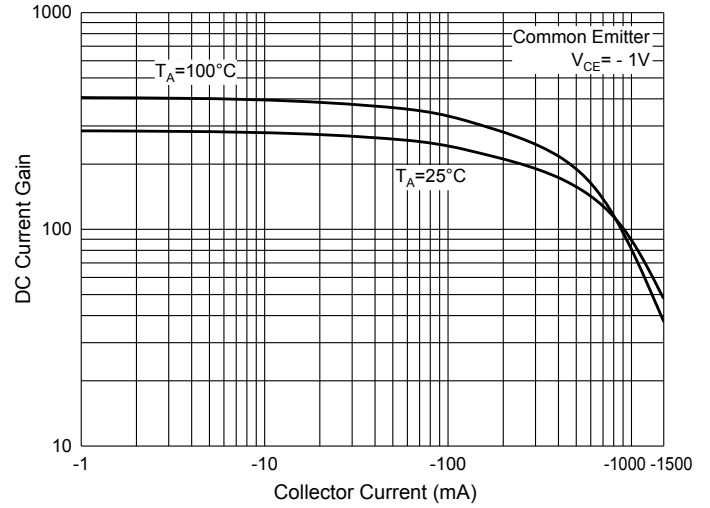


Fig. 3 - Collector-Emitter Saturation Voltage Characteristics

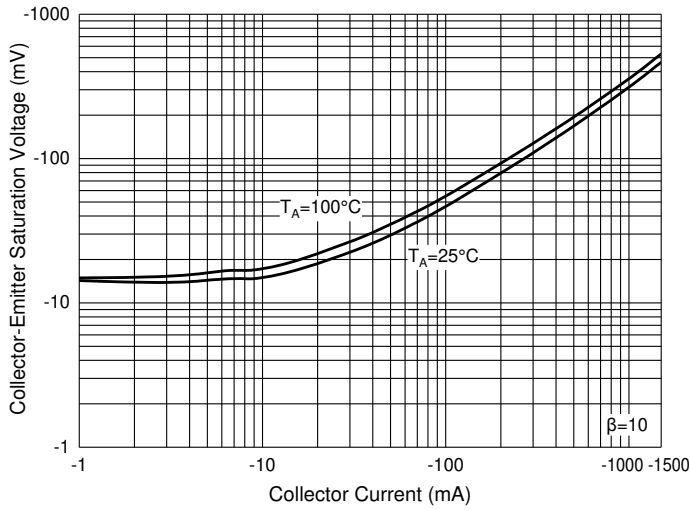


Fig. 4 - Base-Emitter Saturation Voltage Characteristics

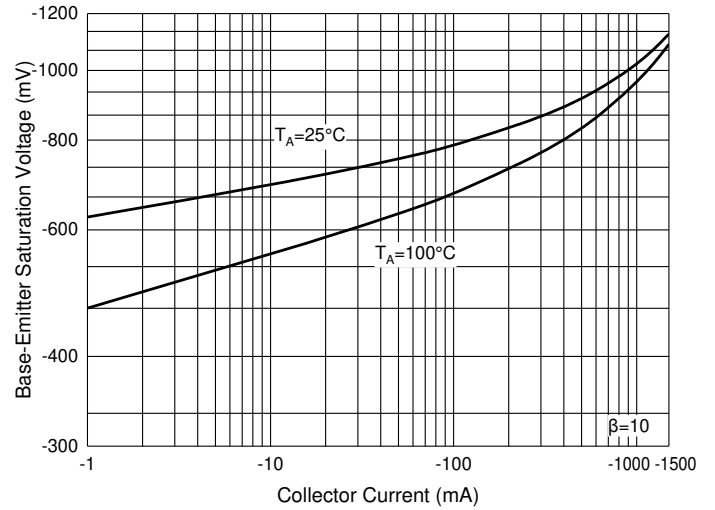


Fig. 5 - Base-Emitter Voltage Characteristics

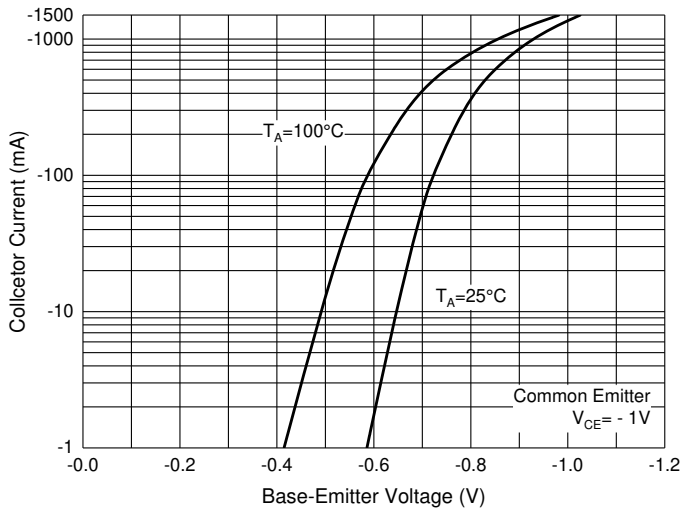
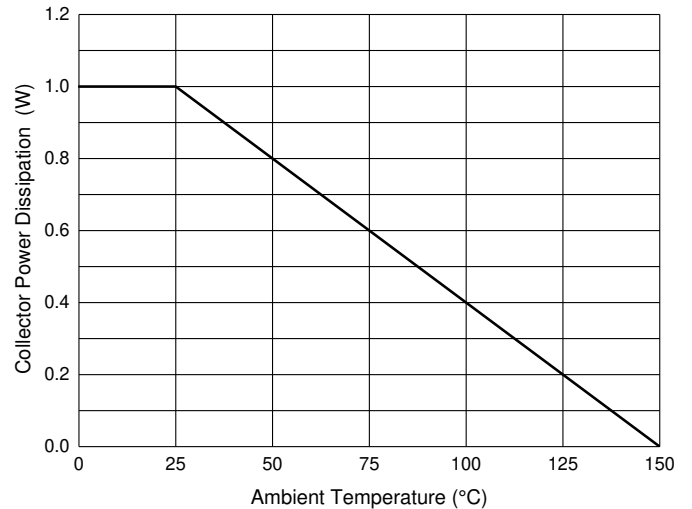


Fig. 6 - Collector Power Derating Curve



## Ordering Information

Device	Packing
Part Number-AP	Ammo Packing: 20Kpcs/Carton
Part Number-BP	Bulk: 100Kpcs/Carton

Note : Adding "-HF" Suffix for Halogen Free, eg. Part Number-TP-HF

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