

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)

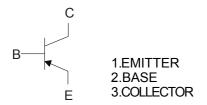
Maximum Ratings @ 25°C Unless Otherwise Specified

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 200°C/W Junction to Ambient

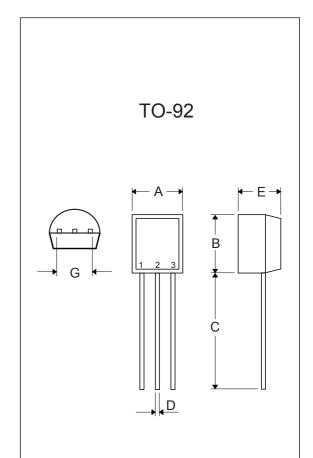
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	-40	V
Collector-Emitter Voltage	V _{CEO}	-25	V
Emitter-Base Voltage	V _{EBO}	-5	V
Continuous Collector Current	I _C	-0.5	Α
Power Dissipation@T _A =25°C	P _D	625	mW

Marking:S8550

Internal Structure



PNP Silicon Transistors



DIMENSIONS						
DIM INCHES		M	M	NOTE		
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.169	0.185	4.30	4.70		
В	0.169	0.185	4.30	4.70		
С	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	
G	0.173	0.220	4.40	5.60	Bent	



Electrical Characteristics @ T_A =25°C Unless Otherwise Specified

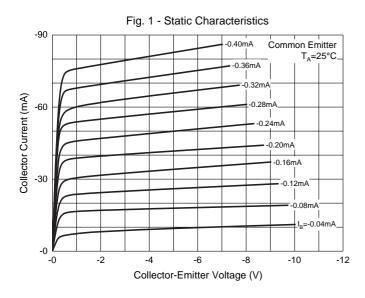
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	-40			V	I _C =-100μA, I _E =0
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-25			V	I _C =-0.1mA, I _B =0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5			V	I _E =-100μA, I _C =0
Collector Cut-off Current	I _{CBO}			-0.1	μA	V_{CB} =-40V, I_{E} =0
Collector Cut-off Current	I _{CEO}			-0.2	μA	V_{CE} =-20V, I_{B} =0
Emitter Cut-off Current	I _{EBO}			-0.1	μA	V_{EB} =-3V, I_{C} =0
DC Current Gain	h _{FE(1)}	85		300		V_{CE} =-1V, I_{C} =-50mA
DC Current Gain	h _{FE(2)}	40				V _{CE} =-1V, I _C =-500mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			-0.6	V	I _C =-500mA, I _B =-50mA
Base-Emitter Saturation Voltage	V _{BE(sat)}			-1.2	V	I _C =-500mA, I _B =-50mA
Base-Emitter Voltage	V_{EB}			-1.4	V	I _E =-100mA
Transition Frequency	f _T	150			MHz	V_{CE} =-6V, I_{C} =-20mA, f=30MHz

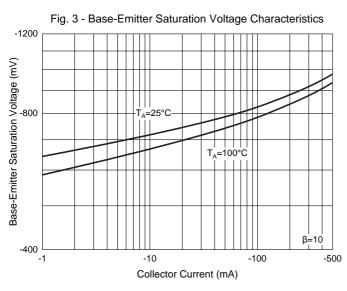
Classification of h_{FE(1)}

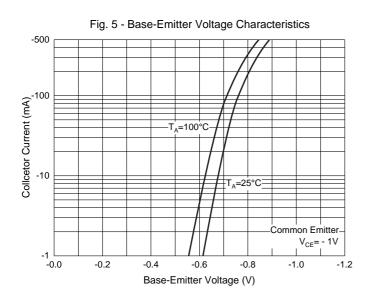
Rank	В	С	D
Range	85-150	120-200	160-300

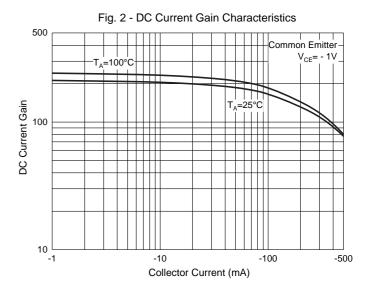


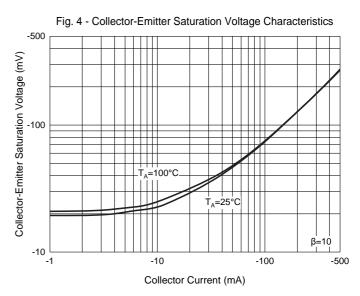
Curve Characteristics

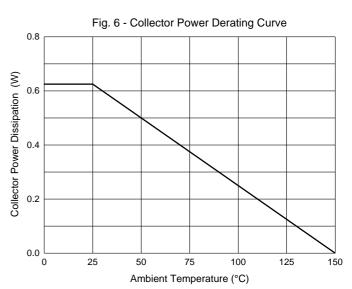














Ordering Information

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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