

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)

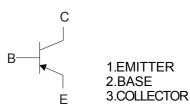
Maximum Ratings @ 25°C Unless Otherwise Specified

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 278°C/W Junction to Ambient

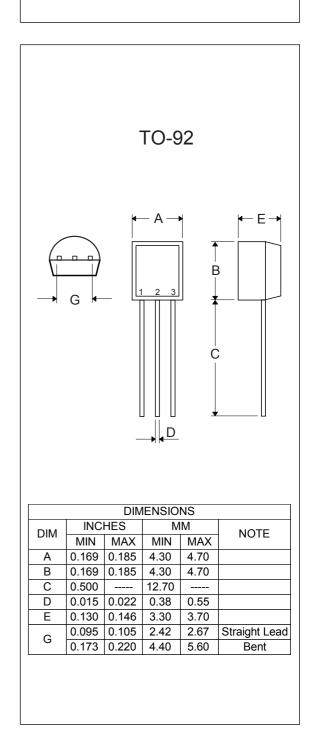
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	-50	V
Collector-Emitter Voltage	V _{CEO}	-45	V
Emitter-Base Voltage	V _{EBO}	-5	V
Continuous Collector Current	Ι _C	100	mA
Power Dissipation	PD	450	mW

Marking:S9015

Internal Structure



PNP Silicon	
Transistors	





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

Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	-50			V	Ι _C =-100μΑ, Ι _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	-45			V	I _C =-1mA, I _B =0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5			V	Ι _E =-100μΑ, Ι _C =0
Collector Cut-off Current	I _{CBO}			-0.05	μA	V _{CB} =-50V, I _E =0
Emitter Cut-off Current	I _{EBO}			-0.05	μA	V _{EB} =-5V, I _C =0
DC Current Gain	h _{FE}	100		1000		V _{CE} =-5V, I _C =-1mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			-0.3	V	I _C =-100mA, I _B =-10mA
Base-Emitter Saturation Voltage	V _{BE(sat)}			-1	V	I _C =-100mA, I _B =-10mA
Transition Frequency	f _T	150			MHz	V _{CE} =-5V, I _C =-10mA, f=30MHz

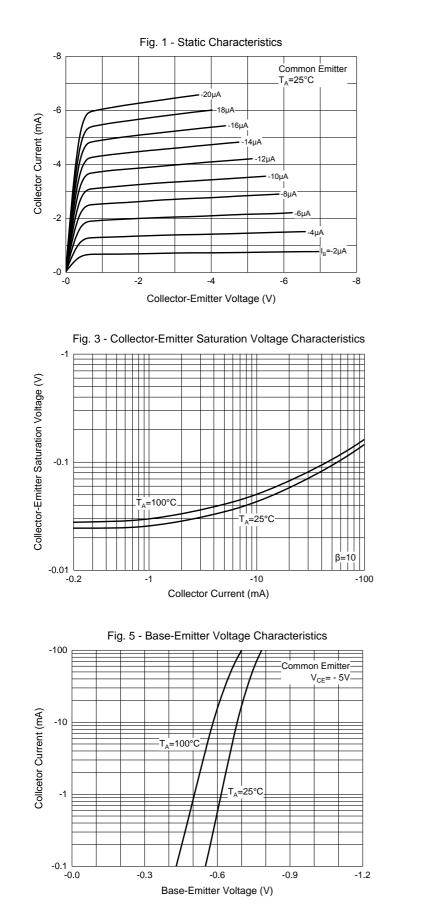
Classification of h_{FE}

Rank	В	С	D
Range	100-300	200-600	400-1000





Curve Characteristics



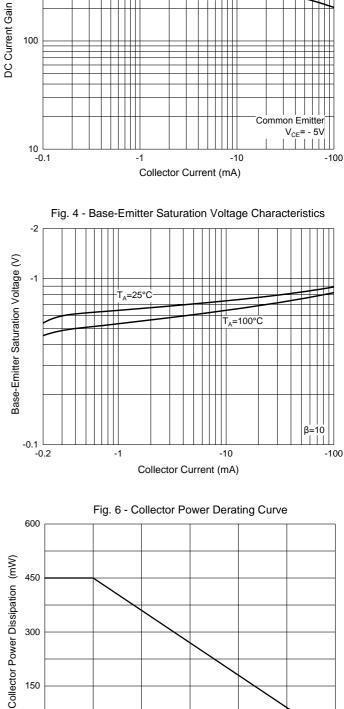


Fig. 2 - DC Current Gain Characteristics

₄=25°C

T₄=100°C

1000

0

0

25

50

75

Ambient Temperature (°C)

100

125

150



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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