

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)

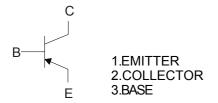
Maximum Ratings @ 25°C Unless Otherwise Specified

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 250°C/W Junction to Ambient

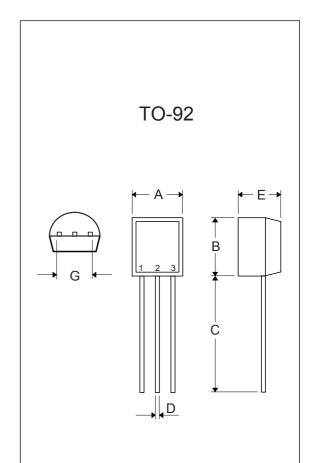
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	-35	٧
Collector-Emitter Voltage	V _{CEO}	-30	٧
Emitter-Base Voltage	V _{EBO}	-5	٧
Continuous Collector Current	I _C	-500	mA
Power Dissipation	P _D	500	mW

Marking: Type Number

Internal Structure



PNP Plastic-Encapsulate Transistors



DIMENSIONS					
DIM INCH		HES MM		M	NOTE
DIIVI	MIN	MAX	MIN	MAX	NOIL
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
	0.173	0.220	4.40	5.60	Bent



Electrical Characteristics @ T_A =25°C Unless Otherwise Specified

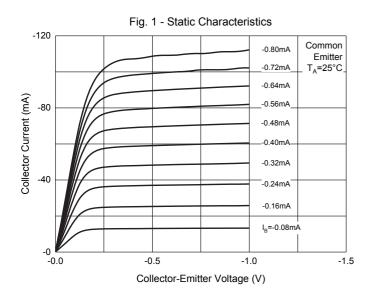
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	-35			V	I _C =-100μA, I _E =0
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-30			V	I _C =-1mA, I _B =0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5			V	I_{E} =-100 μ A, I_{C} =0
Collector Cut-off Current	I _{CBO}			-0.1	μΑ	$V_{CB} = -35V, I_{E} = 0$
Emitter Cut-off Current	I _{EBO}			-0.1	μΑ	V_{EB} =-5V, I_{C} =0
DC Current Gain	h _{FE(1)}	70		240		V _{CE} =-1V, I _C =-100mA
	h _{FE(2)}	25				V_{CE} =-6V, I_{C} =-400mA
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$			-0.25	V	I _C =-100mA, I _B =-10mA
Base-Emitter Voltage	V_{BE}			-1	V	V _{CE} =-1V, I _C =-100mA
Transition Frequency	f_{T}		200		MHz	V _{CE} =-6V, I _C =-20mA, f=100MHz)
Collector Output Capacitance	C _{ob}		13		pF	V _{CB} =-6V, I _E =0, f=1MHz

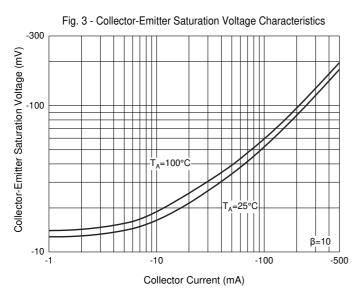
Classification of h_{FE(1)}

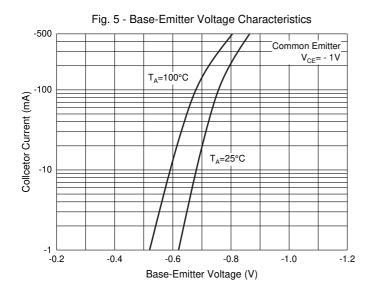
Rank	0	Y	
Range	70-140	120-240	

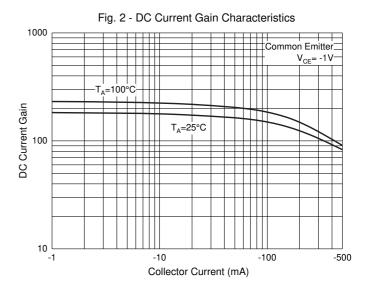


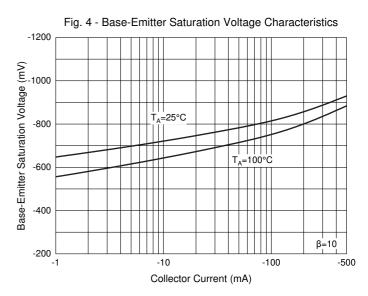
Curve Characteristics

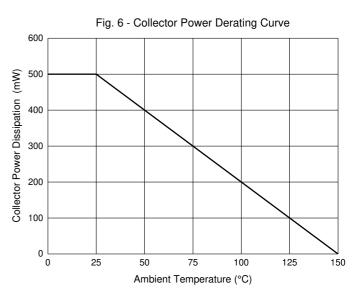














Ordering Information

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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