

Features

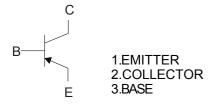
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- · Moisture Sensitivity Level 1
- · Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings @ 25°C Unless Otherwise Specified

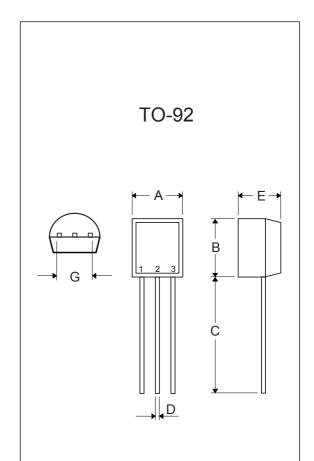
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 500°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	-60	V
Collector-Emitter Voltage	V _{CEO}	-50	V
Emitter-Base Voltage	V _{EBO}	-5	V
Continuous Collector Current	I _C	-100	mA
Power Dissipation	P_{D}	250	mW

Internal Structure



PNP Silicon Plastic-Encapsulate Transistor



DIMENSIONS						
DIM INCHES		HES	MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	INOTE	
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	
3	0.173	0.220	4.40	5.60	Bent	



Electrical Characteristics @ T_A =25°C Unless Otherwise Specified

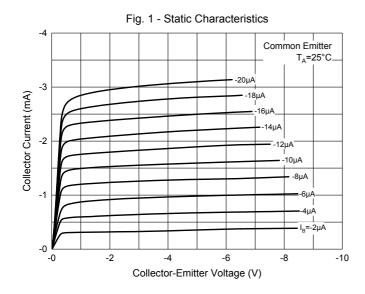
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	-60			V	I _C =-5μA, I _E =0
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-50			V	I _C =-1mA, I _B =0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5			V	I_{E} =-50 μ A, I_{C} =0
Collector-Base Cutoff Current	I _{CBO}			-0.1	μΑ	V_{CB} =-60V, I_E =0
Emitter-Base Cutoff Current	I _{EBO}			-0.1	μΑ	V _{EB} =-5V, I _C =0
DC Current Gain	h _{FE}	90		600		V _{CE} =-6V, I _C =-1mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}		-0.18	-0.30	V	I _C =-100mA, I _B =-10mA
Transition Frequency	f _T	100			MHz	V_{CE} =-6V, I_{C} =-10mA
Collector Output Capacitance	C _{ob}			6	pF	V_{CB} =-10V, I_{E} =0, f =1MHz
Noise Figure	N_{F}			20	dB	V_{CE} =-6V, I_{C} =-0.3mA, f =100Hz, R_{g} =10K Ω

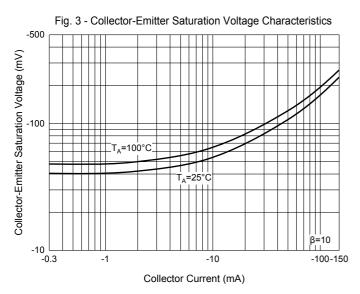
Classification of h_{FE}

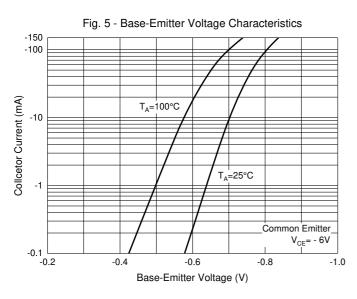
Rank	R	Q	Р	К
Range	90-180	135-270	200-400	300-600

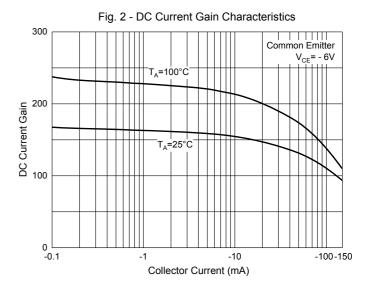


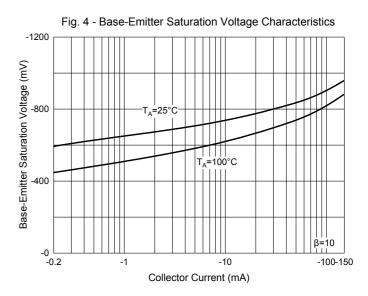
Curve Characteristics

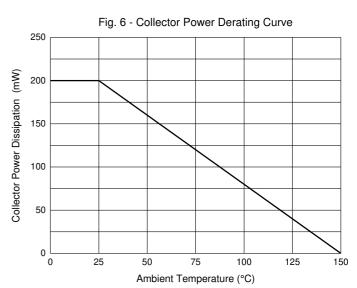














Ordering Information

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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