

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)

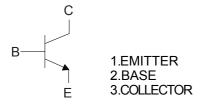
Maximum Ratings @ 25°C Unless Otherwise Specified

- 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

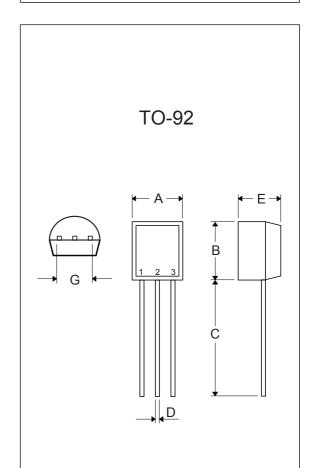
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	180	V
Collector-Emitter Voltage	V _{CEO}	160	V
Emitter-Base Voltage	V _{EBO}	6	V
Continuous Collector Current	I _C	600	mA
Power Dissipation	P_D	625	mW

Marking: Type Number

Internal Structure



NPN General Purpose Amplifier Transistor



DIMENSIONS						
DIM INCHES		MM		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	



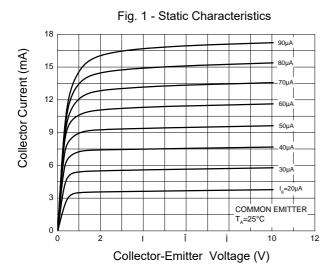
Electrical Characteristics @ T_A =25°C Unless Otherwise Specified

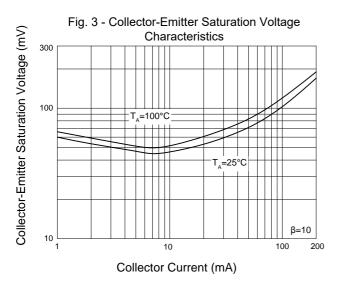
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	180			V	I _C =100μA, I _E =0
Collector-Emitter Breakdown Voltage*	$V_{(BR)CEO}$	160			V	I _C =1mA, I _B =0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	6			V	I _E =10μA, I _C =0
Collector Cut-off Current	I _{CBO}			0.05	μΑ	V_{CB} =35V, I_E =0
				50	μΑ	V _{CB} =120V, I _E =0, T _A =100°C
Emitter Cut-off Current	I _{EBO}			0.05	μA	V_{EB} =5V, I_C =0
DC Current Gain*	h _{FE(1)}	80				V_{CE} =5V, I_{C} =1mA
	h _{FE(2)}	80		300		V _{CE} =5V, I _C =10mA
	h _{FE(3)}	30				V_{CE} =5V, I_{C} =50mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			0.5	V	I _C =50mA, I _B =5mA
Base-Emitter Saturation Voltage	V _{BE(sat)}			1	V	I _C =50mA, I _B =5mA
Transition Frequency	f _T	100		300	MHz	V _{CE} =10V, I _C =10mA
Collector Output Capacitance	C _{ob}			6	pF	V _{CB} =10V, I _E =0,f=1MHz
Input Capacitance	C _{ibo}			20	pF	V _{CE} =10V, I _C =0, f=1MHz

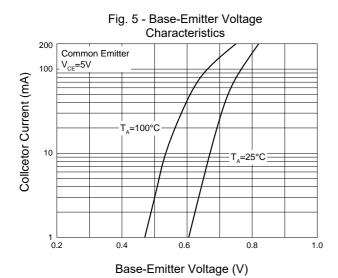
^{*.}Pulse test: Pulse Width≤300µs,Duty Cycle≤2.0%.

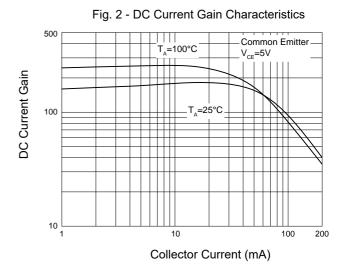


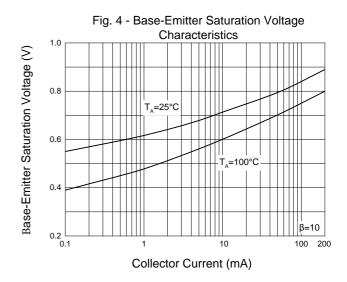
Curve Characteristics

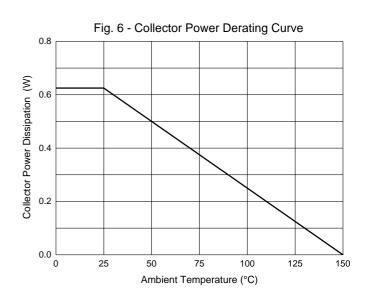














Ordering Information

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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