

Features

- Complementary to MPSA42
- 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)

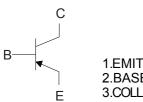
Maximum Ratings @ 25°C Unless Otherwise Specified

- 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
- Thermal Resistance: 83.3°C/W Junction to Case

Paramo	Symbol	Rating	Unit	
Collector-Base Volt	V_{CBO}	-300	V	
Collector-Emitter V	V_{CEO}	-300	V	
Emitter-Base Voltag	V_{EBO}	-5	V	
Continuous Collect	Ι _C	-300	mA	
Power Dissipation	T _A =25°C,Derate		625	mW
	above 25°C	D	5	mW/°C
	T _C =25°C,Derate	P _D	1.5	W
	above 25°C		12	mW/°C

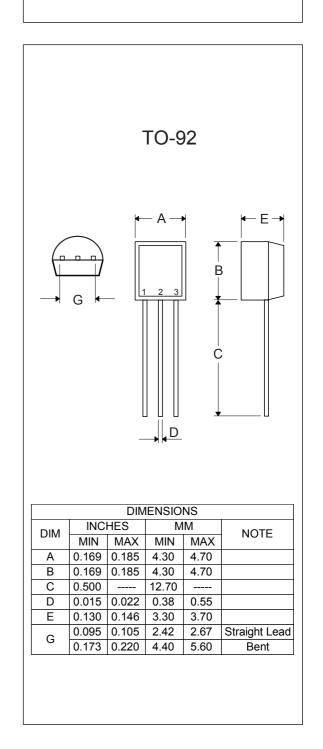
Marking:A92

Internal Structure



.EMITTER	
BASE	
.COLLECTOR	

PNP Silicon High Voltage Transistor





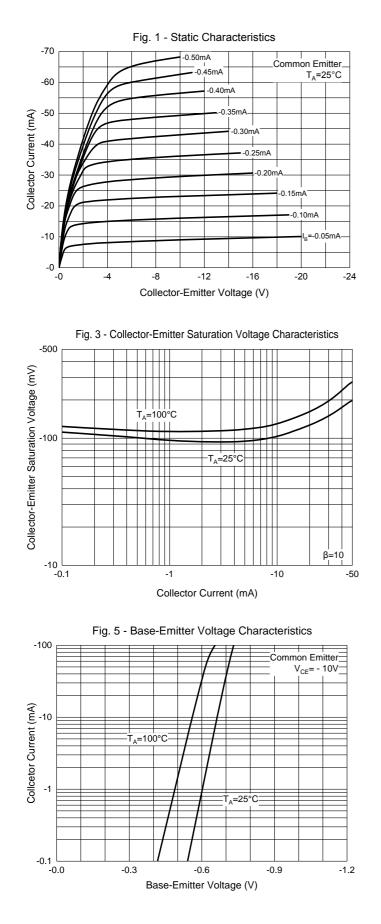
Electrical Characteristics @ $T_A \!\!=\! 25^\circ C$ Unless Otherwise Specified

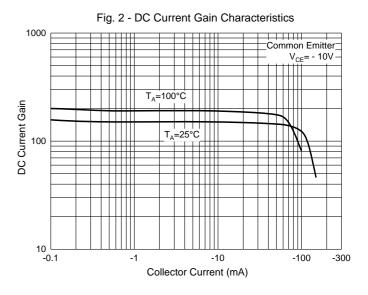
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	-300			V	I _C =-100μA, I _E =0
Collector-Emitter Breakdown Voltage*	V _{(BR)CEO}	-300			V	I _C =-1mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	-5			V	I _E =-10μA, I _C =0
Collector Cut-off Current	I _{CBO}			-0.25	μA	V _{CB} =-200V, I _E =0
Emitter Cut-off Current	I _{EBO}			-0.25	μA	V_{EB} =-3V, I _C =0
	h _{FE(1)}	25				V _{CE} =-10V, I _C =-1mA
DC Current Gain*	h _{FE(2)}	80		250		V _{CE} =-10V, I _C =-10mA
	h _{FE(3)}	25				V _{CE} =-10V, I _C =-50mA
Collector-Emitter Saturation Voltage*	V _{CE(sat)}			-0.5	V	I _C =-20mA, I _B =-2mA
Base-Emitter Saturation Voltage*	V _{BE(sat)}			-0.9	V	I _C =-20mA, I _B =-2mA
Transition Frequency	f _T	50			MHz	V _{CE} =-5V, I _C =-10mA, f=30MHz
Collector Output Capacitance	C _{ob}			6	pF	V _{CB} =-20V, I _E =0,f=1MHz

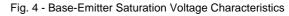
*.Pulse test: Pulse Width≤300µs,Duty Cycle≤2.0%.

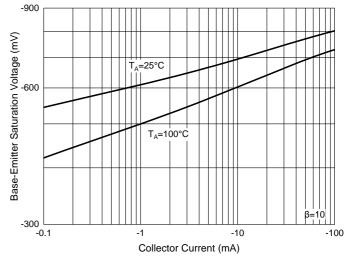


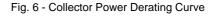
Curve Characteristics

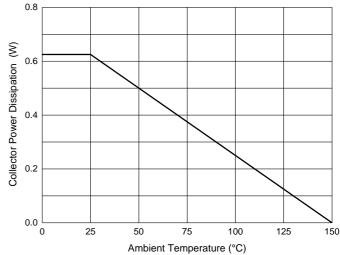














Ordering Information

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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