

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)

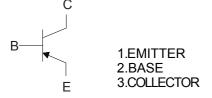
Maximum Ratings @ 25°C Unless Otherwise Specified

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

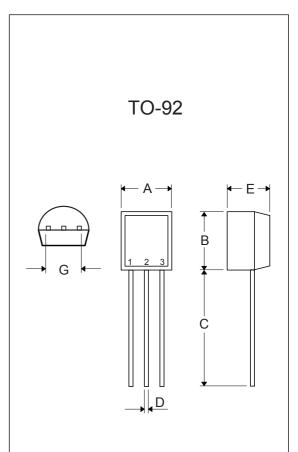
Parame	eter	Symbol	Rating	Unit
Collector-Base Volt	V_{CBO}	-80	V	
Collector-Emitter V	V_{CEO}	-80	V	
Emitter-Base Voltage	V_{EBO}	-4	V	
Continuous Collect	I _C	-500	mA	
Power Dissipation	T _A =25°C,Derate		625	mW
	above 25°C	P_{D}	5	mW/°C
	T _C =25°C,Derate	ı D	1.5	W
	above 25°C		12	mW/°C

Marking Code: MPSA55,MPSA56

Internal Structure



PNP Silicon Amplifier Transistor



DIMENSIONS					
DIM	INCHES		M	M	NOTE
	MIN	MAX	MIN MAX		INOIL
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
9	0.173	0.220	4.40	5.60	Bent



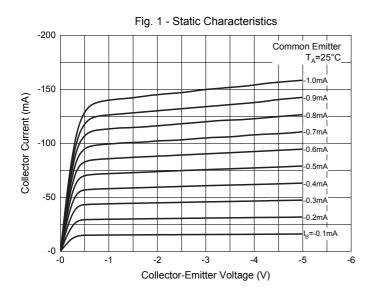
Electrical Characteristics @ T_A =25°C Unless Otherwise Specified

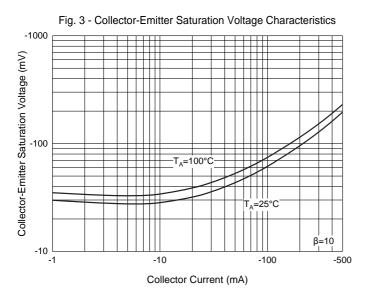
Parameter		Symbol	Min	Тур	Max	Units	Conditions
Collector-Emitter Breakdown Voltage*	MPSA55	V _{(BR)CEO}	-60			V	I _C =-1mA, I _B =0
	MPSA56		-80			V	IC IIIA, IB-0
Emitter-Base Breakdown Voltage		$V_{(BR)EBO}$	-4			V	I _E =-100μA, I _C =0
Collector Cutoff Current		I _{CES}			-0.1	μΑ	V _{CE} =-60V, I _B =0
Collector Cutoff Current	MPSA55	I _{CBO}			-0.1	μA	V _{CB} =-60V, I _E =0
	MPSA56				-0.1	μA	V _{CB} =-80V, I _E =0
DC Current Gain*		h _{FE(1)}	100				V _{CE} =-1V, I _C =-10mA
		h _{FE(2)}	100				V _{CE} =-1V, I _C =-100mA
Collector-Emitter Saturation Voltage		V _{CE(sat)}			-0.25	V	I _C =-100mA, I _B =-10mA
Base-Emitter Saturation Voltage		V _{BE(on)}			-1.2	V	V _{CE} =-1V, I _C =-100mA
Transition Frequency		f_{T}	50			MHz	V _{CE} =-1V, I _C =-100mA, f=100MHz

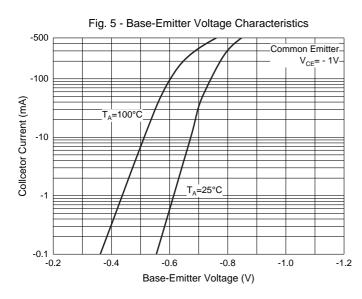
^{*.}Pulse test: Pulse Width≤300µs,Duty Cycle≤2.0%.

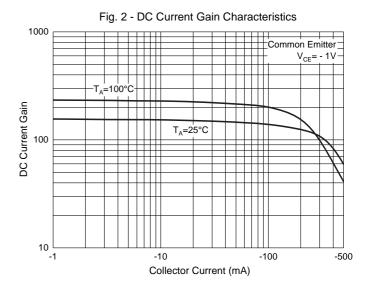


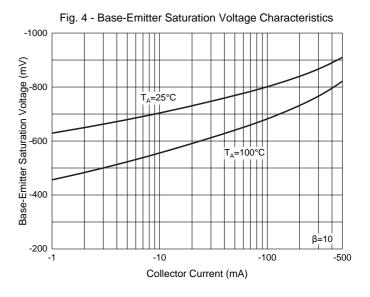
Curve Characteristics

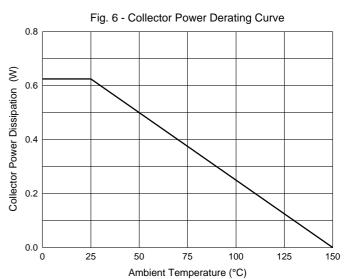














Ordering Information

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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Rev.3-1-01012019 4/4 MCCSEMI.COM