

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)

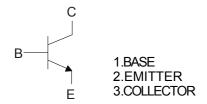
Maximum Ratings @ 25°C Unless Otherwise Specified

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 357°C/W Junction to Ambient

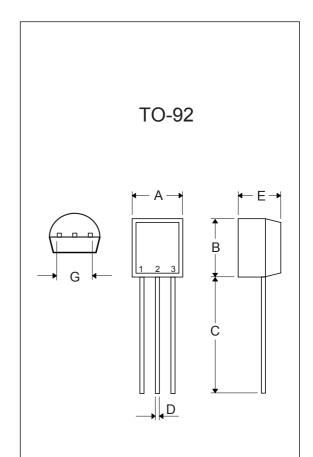
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	30	V
Collector-Emitter Voltage	V _{CEO}	25	V
Emitter-Base Voltage	V_{EBO}	3	V
Continuous Collector Current	I _C	50	mA
Power Dissipation	P _D	350	mW

Marking: MPSH10

Internal Structure



NPN RF Transistor



DIMENSIONS					
DIM INCHES		MM		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
G	0.173	0.220	4.40	5.60	Bent

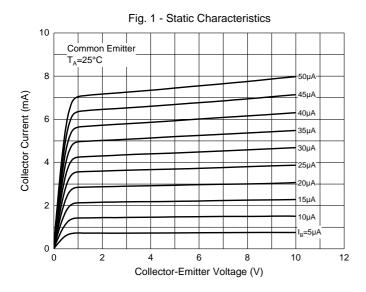


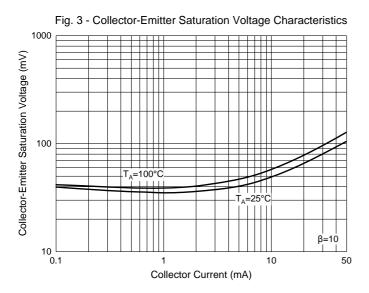
Electrical Characteristics @ T_A =25°C Unless Otherwise Specified

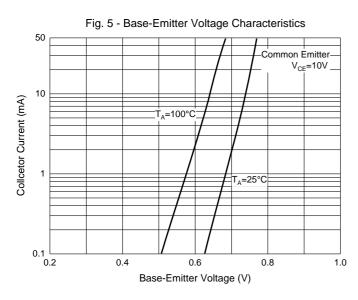
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	30			V	I _C =100μA, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	25			V	I _C =1mA, I _B =0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	3			V	I _E =10μA, I _C =0
Collector Cut-off Current	I _{CBO}			0.1	μA	V _{CB} =25V, I _E =0
Collector Cut-off Current	I _{CEO}			0.2	μΑ	V _{CE} =20V, I _B =0
Emitter Cut-off Current	I _{EBO}			0.1	μΑ	V _{EB} =2V, I _C =0
DC Current Gain	h _{FE}	60		200		V _{CE} =10V, I _C =4mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			0.5	V	I _C =4mA, I _B =0.4mA
Base-Emitter Voltage	V_{BE}			0.95	V	V _{CE} =10V, I _C =4mA
Transition Frequency	f _T	650			MHz	V _{CE} =10V, I _C =4mA, f=100MHz

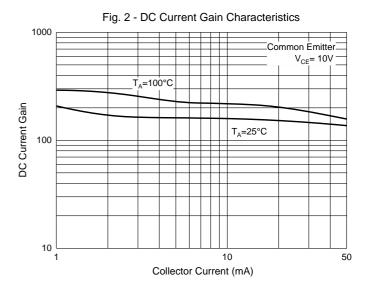


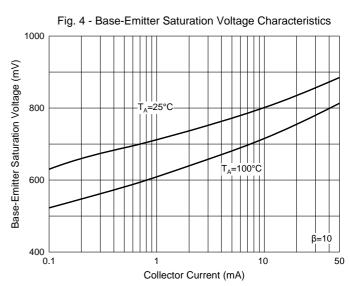
Curve Characteristics

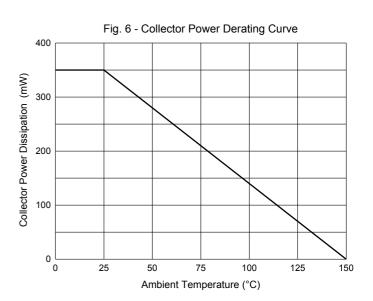














Ordering Information

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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