

Features

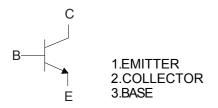
- · Halogen Free Available Upon Request By Adding Suffix "-HF"
- · Moisture Sensitivity Level 1
- · Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings @ 25°C Unless Otherwise Specified

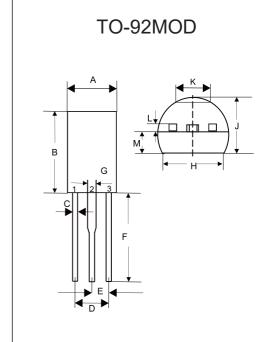
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 139°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	120	V
Collector-Emitter Voltage	V _{CEO}	120	V
Emitter-Base Voltage	V_{EBO}	5	V
Continuous Collector Current	I _C	0.8	Α
Power Dissipation	P _D	0.9	W

Internal Structure



NPN Plastic-Encapsulate Transistor



DIMENSIONS					
DIM	INC	HES	MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.228	0.244	5.80	6.20	
В	0.331	0.346	8.40	8.80	
С	0.016	0.024	0.40	0.60	
D	0.114	0.122	2.90	3.10	Straight Lead
	0.173	0.220	4.40	5.60	Bent Lead
Е	0.059		1.50		Straight Lead
_	0.086	0.110	2.20	2.80	Bent Lead
F	0.543	0.559	13.80	14.20	
G	0.035	0.043	0.90	1.10	
Н	0.157		4.00		
J	0.185	0.201	4.70	5.10	
K		0.063		1.60	
L	0.016	0.020	0.40	0.50	
М	0.068	0.080	1.73	2.03	

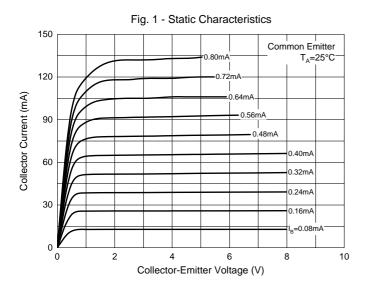


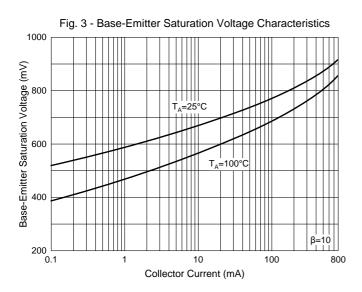
Electrical Characteristics @ T_A =25°C Unless Otherwise Specified

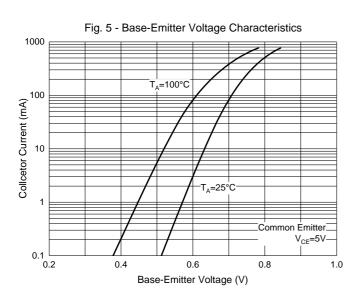
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	120			V	I _C =1mA, I _E =0
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	120			V	I _C =10mA, I _B =0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	5			V	I _E =1mA, I _C =0
Collector-Base Cutoff Current	I _{CBO}			0.1	μΑ	V _{CB} =120V, I _E =0
Emitter-Base Cutoff Current	I _{EBO}			0.1	μΑ	V_{EB} =5V, I_C =0
DC Current Gain	h _{FE}	120		240		V _{CE} =5V, I _C =100mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			1.0	V	I _C =500mA, I _B =50mA
Base-Emitter Voltage	V_{BE}			1.0	V	V _{CE} =5V, I _C =500mA
Transition Frequency	f _T		120		MHz	V _{CE} =5V, I _C =100mA
Collector-Base Capacitance	C _{cb}			30	pF	V _{CB} =10V, I _E =0,f=1MHz

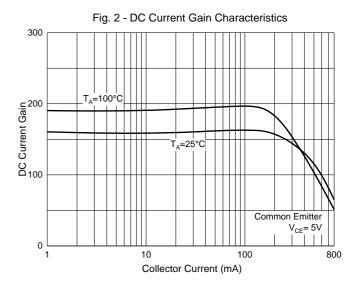


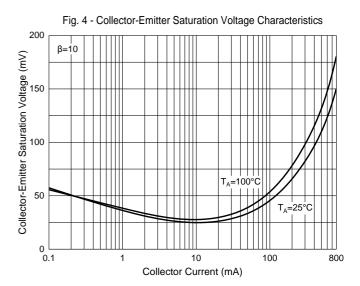
Curve Characteristics

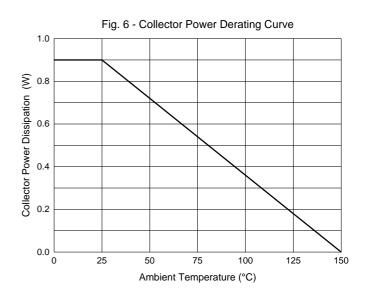














Ordering Information

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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