

Features

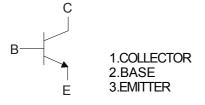
- · Halogen Free Available Upon Request By Adding Suffix "-HF"
- · Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings @ 25°C Unless Otherwise Specified

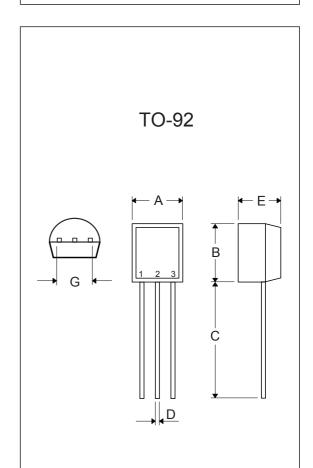
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 200°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit	
Collector-Base Voltage	BC337	V _{CBO}	50	V
Collector-base voltage	BC338	▼ CBO	30	
Collector-Emitter	BC337	V _{CEO}	45	V
Voltage	BC338	V CEO	25	
Emitter-Base Voltage	V _{EBO}	5	V	
Continuous Collector C	I _C	800	mA	
Power Dissipation	P _D	625	mW	

Internal Structure



NPN Plastic-Encapsulate Transistors



	DIMENSIONS					
DIM	INCHES		M	М	NOTE	
Dilvi	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	
	0.173	0.220	4.40	5.60	Bent	



Electrical Characteristics @ T_A =25°C Unless Otherwise Specified

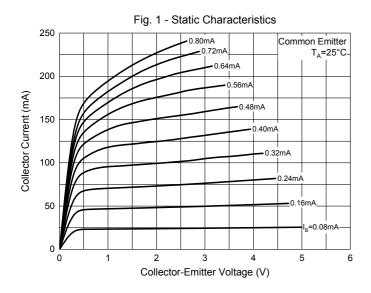
Parameter		Symbol	Min	Тур	Max	Units	Conditions	
Collector-Base Breakdown Voltage	BC337	V _{(BR)CBO}	50			V	I _C =100μA, I _E =0	
	BC338		30					
Collector-Emitter	BC337	V	45			V	I _C =10mA, I _B =0	
Breakdown Voltage	BC338	$V_{(BR)CEO}$	25			V	IC-TOTIA, IB-0	
Emitter-Base Breakdown Vo	Emitter-Base Breakdown Voltage		5			V	I _E =10μA, I _C =0	
Collector Cutoff Current	BC337	I _{CBO}			0.1	μA	V _{CB} =45V, I _E =0	
	BC338				0.1		V_{CB} =25V, I_{E} =0	
Collector Cutoff Current	BC337	I _{CEO}			0.2	μA	V _{CE} =40V, I _B =0	
	BC338				0.2		V _{CE} =20V, I _B =0	
Emitter Cutoff Current		I _{EBO}			0.1	μA	V_{EB} =4V, I_C =0	
DC Current Gain		h _{FE(1)}	100		630		V _{CE} =1V, I _C =100mA	
		h _{FE(2)}	60				V_{CE} =1V, I_{C} =300mA	
Collector-Emitter Saturation Voltage		V _{CE(sat)}			0.7	V	I _C =500mA, I _B =50mA	
Base-Emitter Saturation Voltage		V _{BE(sat)}			1.2	V	I _C =500mA, I _B =50mA	
Transition Frequency		f _T	210			MHz	V _{CE} =5V, I _C =10mA, f=100MHz	
Output Capacitance		C _{ob}		15		pF	V _{CB} =10V, I _E =0, f=1MHz	

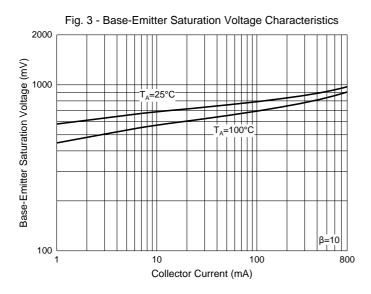
Classification of h_{FE(1)}

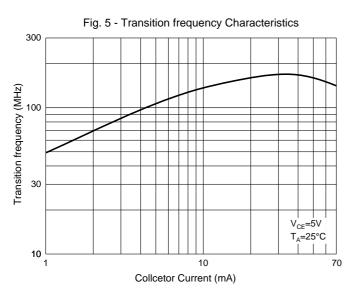
Rank	16	25	40
Range	100-250	160-400	250-600

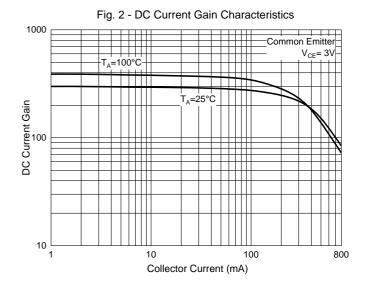


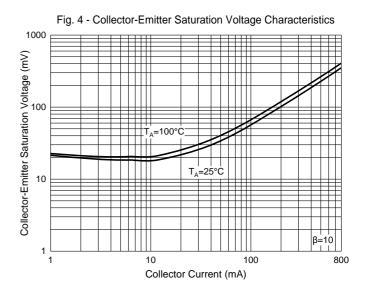
Curve Characteristics

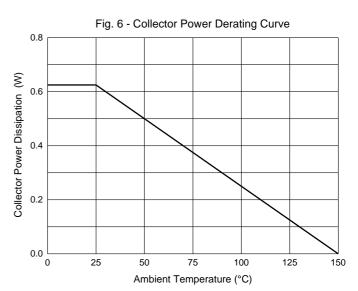














Ordering Information

Device	Packing		
Part Number-AP	Ammo Packing: 20Kpcs/Carton		
Part Number-BP	Bulk:1k/Bag,100K/Ctn;		

Note: Adding "-HF" Suffix for Halogen Free, eg. Part Number-TP-HF

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