



BC637-10 BC637-16

Features

- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

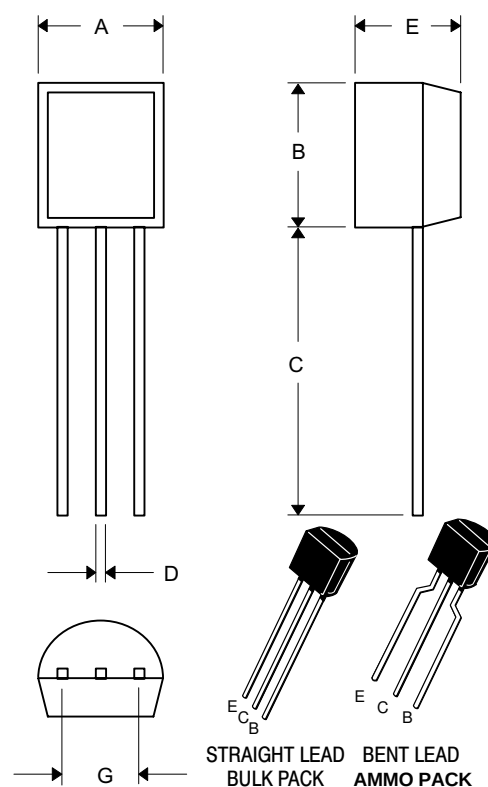
- Operating temperature : -55°C to +150°C
- Storage temperature : -55°C to +150°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Value	Unit
V_{CEO}	Collector-Emitter Voltage	60	V
V_{CBO}	Collector-Base Voltage	60	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current -Continuous	1.0	A
P_C	Collector Power Dissipation	830	mW
T_j	Junction Temperature	150	°C
T_{stg}	Storage Temperature	-55-150	°C

NPN Plastic-Encapsulate Transistors

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DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.175	.185	4.45	4.70	
B	.175	.185	4.45	4.70	
C	.500	---	12.70	---	
D	.016	.020	0.41	0.63	
E	.135	.145	3.43	3.68	
G	.095	.105	2.42	2.67	Straight Lead
	.173	.220	4.40	5.60	Bent Lead

* For ammo packing detailed specification, click here to visit our website of product packaging for details.

BC637

ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =10mA, I _B =0	60			V
Collector cut-off current	I _{CBO}	V _{CB} = 30 V, I _E =0			0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =5V, I _B =0			0.1	μA
DC current gain	h _{FE(1)}	V _{CE} =2 V, I _C = 5mA	25			
	h _{FE(2)}	V _{CE} =2V, I _C =150mA BC637-10 BC637-16	63 100		160 250	
	h _{FE(3)}	V _{CE} =2V, I _C = 500mA	25			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =500mA, I _B =50mA			0.5	V
Base-emitter voltage	V _{BE}	V _{CE} =2V, I _C =500mA			1	V
Transition frequency	f _T	V _{CE} =5V, I _C =10mA, f= 50 MHz		100		MHz

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-AP-HF

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