



Micro Commercial Components



Micro Commercial Components
 20736 Marilla Street Chatsworth
 CA 91311
 Phone: (818) 701-4933
 Fax: (818) 701-4939

BC636-10
BC636-16
BC638
BC640

Features

- Halogen free available upon request by adding suffix "-HF"
- Through Hole Package
- Capable of 830mWatts of Power Dissipation
- 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

Symbol	Rating	Value	Unit
V_{CEO}	Collector-Emitter Voltage	BC636 -45	V
		BC638 -60	V
		BC640 -100	V
V_{CBO}	Collector-Base Voltage	BC636 -45	V
		BC638 -60	V
		BC640 -80	V
V_{EBO}	Emitter-Base Voltage	-5.0	V
I_C	Collector Current	-1.0	A
I_B	Base Current	-100	mA
T_J	Junction Temperature	-65 to +150	°C
T_{STG}	Storage Temperature	-65 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

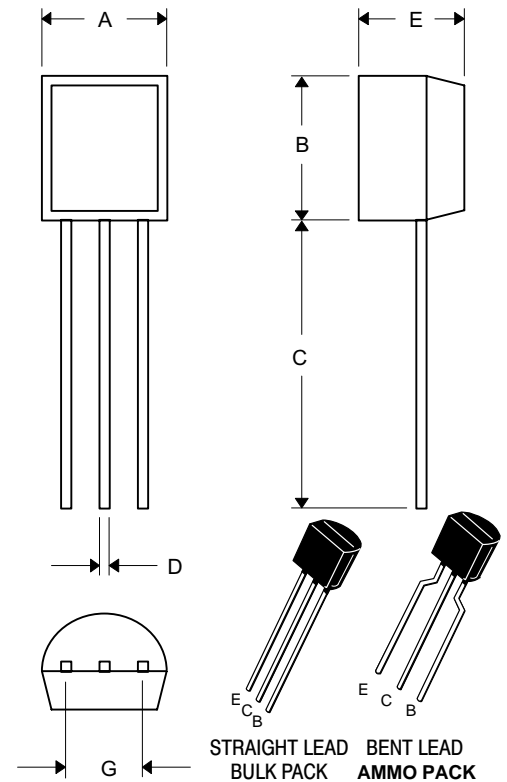
Symbol	Parameter	Min	Typ	Max	Unit
--------	-----------	-----	-----	-----	------

OFF CHARACTERISTICS

$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ($I_C=-1mA_{dc}, I_E=0$)	BC636 -45	---	---	Vdc
		BC638 -60			Vdc
		BC640 -80			Vdc
I_{CBO}	Collector Cutoff Current ($V_{CB}=-30V_{dc}, I_E=0$)	---	---	-0.1	μA_{dc}
I_{EBO}	Emitter Cutoff Current ($V_{EB}=-5.0V_{dc}, I_C=0$)	---	---	-0.1	μA_{dc}
$h_{FE(1)}$	DC Current Gain ($V_{CE}=-2V_{dc}, I_C=-5mA_{dc}$)	40	---	---	
	DC Current Gain ($V_{CE}=-2V_{dc}, I_C=-150mA_{dc}$)	BC636-10 63		160	
$h_{FE(2)}$		BC636-16, BC638, BC640 100		250	
	DC Current Gain ($V_{CE}=-2V_{dc}, I_C=-500mA_{dc}$)	25			
$h_{FE(3)}$	DC Current Gain ($V_{CE}=-2V_{dc}, I_C=-500mA_{dc}$)	25			
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=-500mA_{dc}, I_B=-50mA_{dc}$)	---	---	-0.5	Vdc
$V_{BE(on)}$	Base-Emitter Voltage ($I_C=-500mA_{dc}, V_{CE}=-2V_{dc}$)	---	---	-1.0	Vdc
f_T	Transition Frequency ($V_{CE}=-5.0V_{dc}, I_C=-50mA_{dc}, f=100MHz$)	100	---	---	MHz

PNP Epitaxial Silicon Transistors

TO-92



STRAIGHT LEAD BULK PACK
 BENT LEAD AMMO PACK

DIMENSIONS

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	

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



Micro Commercial Components

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

*****IMPORTANT NOTICE*****

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. **Micro Commercial Components Corp.** does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp.** and all the companies whose products are represented on our website, harmless against all damages.

*****LIFE SUPPORT*****

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

*****CUSTOMER AWARENESS*****

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.