



Micro Commercial Components



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BC636-10
BC636-16
BC638
BC640

Features

- 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

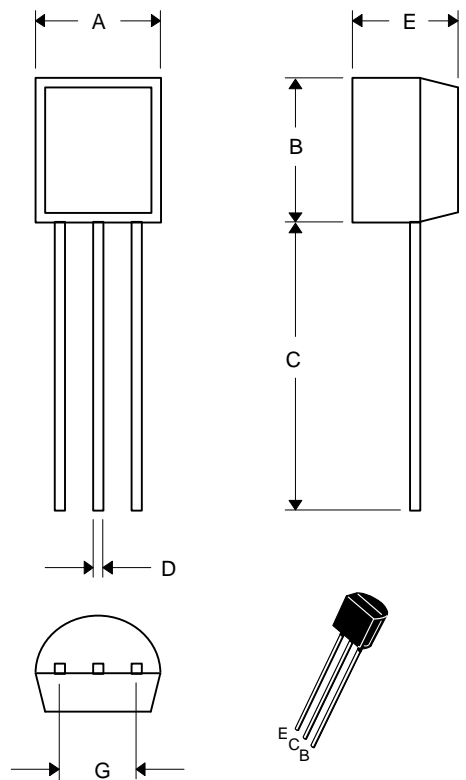
Symbol	Parameter	Min	Typ	Max	Unit
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OFF CHARACTERISTICS

$V_{(BR)CEO}$	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			
$V_{CE(sat)}$	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



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.170	.190	4.33	4.83	
B	.170	.190	4.30	4.83	
C	.550	.590	13.97	14.97	
D	.010	.020	0.36	0.56	
E	.130	.160	3.30	3.96	
G	.010	.104	2.44	2.64	



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Ordering Information :

Device	Packing
Part Number-AP	Ammo Packing: 2Kpcs/Ammo Box
Part Number-BP	Bulk: 100Kpcs/Carton

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