

**Micro Commercial Components** 



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

## **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
- Moisure Sensitivity Level 1

### Maximum Ratings

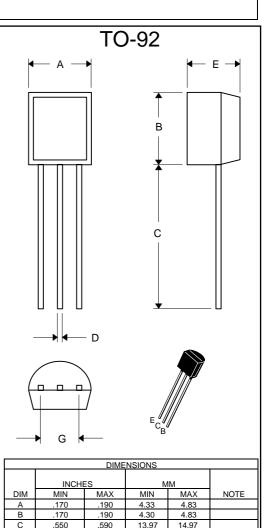
Symbol	Rating		Value	Unit	
	Collector-Emitter Voltage	BC636	-45	V	
V <sub>CEO</sub>		BC638	-60	V	
		BC640	-100	V	
V <sub>CBO</sub>	Collector-Base Voltage	BC636	-45	V	
		BC638	-60	V	
		BC640	-80	V	
V <sub>EBO</sub>	Emitter-Base Voltage		-5.0	V	
I <sub>c</sub>	Collector Current		-1.0	A	
IB	Base Current		-100	mA	
TJ	Junction Temperature		-65 to +150	°C	
T <sub>STG</sub>	Storage Temperature		-65 to +150	°C	

#### Electrical Characteristics @ 25°C Unless Otherwise Specified Min Typ Max Parameter Unit

Symbol 

OFF CHAF	RACTERISTICS			
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage			
	(Ic=-1mAdc,IB=0) BC636	-45	 	Vdc
	BC638	-60		Vdc
	BC640	-80		Vdc
I <sub>CBO</sub>	Collector Cutoff Current			
	(V <sub>CB</sub> =-30Vdc, I <sub>E</sub> =0)		 -0.1	μ Adc
I <sub>EBO</sub>	Emitter Cutoff Current			
	(V <sub>EB</sub> =-5.0Vdc, I <sub>C</sub> =0)		 -0.1	μ Adc
h <sub>FE(1)</sub>	DC Current Gain			
	(V <sub>CE</sub> =-2Vdc, I <sub>C</sub> =-5mAdc)	40	 	
h <sub>FE(2)</sub>	DC Current Gain			
	(V <sub>CE</sub> =-2Vdc, I <sub>C</sub> =-150mAdc) BC636-10	63	160	
	BC636-16,BC638,BC640	100	250	
h <sub>FE(3)</sub>	DC Current Gain			
	(V <sub>CE</sub> =-2Vdc, I <sub>C</sub> =-500mAdc)	25		
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage			
	(I <sub>c</sub> =-500mAdc,I <sub>B</sub> =-50mAdc)		 -0.5	Vdc
V <sub>BE(on)</sub>	Base-Emitter Voltage			
	(I <sub>c</sub> =-500mAdc, V <sub>CE</sub> =-2Vdc)		 -1.0	Vdc
f⊤	Transition Frequency			
	(V <sub>CE</sub> =-5.0Vdc, I <sub>C</sub> =-50mAdc, f=100MHz)	100	 	MHz

# **PNP** Epitaxial **Silicon Transistors**



.010

130

.010

.020

160

.104

0.36

3.30

2.44

## www.mccsemi.com

0.56

3.96

2.64



### **Ordering Information :**

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

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