

**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**

- 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

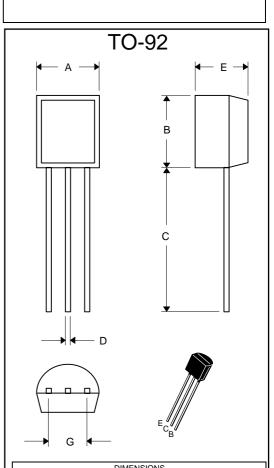
# **Maximum Ratings**

Symbol	Rating	Value	Unit	
	Collector-Emitter Voltage	BC636	-45	V
$V_{CEO}$		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
Ic	Collector Current		-1.0	Α
l <sub>B</sub>	Base Current		-100	mA
$T_J$	Junction Temperature		-65 to +150	$^{\circ}\mathbb{C}$
T <sub>STG</sub>	Storage Temperature		-65 to +150	$^{\circ}\mathbb{C}$

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Тур	Max	Unit	
OFF CHAF	OFF CHARACTERISTICS					
	Collector-Emitter Breakdown Voltage					
V	(I <sub>C</sub> =-1mAdc,I <sub>B</sub> =0) BC636	-45			Vdc	
$V_{(BR)CEO}$	BC638	-60			Vdc	
	BC640	-80			Vdc	
I <sub>CBO</sub>	Collector Cutoff Current					
	$(V_{CB}=-30Vdc, I_{E}=0)$			-0.1	μ Adc	
I <sub>EBO</sub>	Emitter Cutoff Current					
	$(V_{EB}=-5.0Vdc, I_{C}=0)$			-0.1	μ Adc	
h <sub>FE(1)</sub>	DC Current Gain					
	$(V_{CE}=-2Vdc, I_{C}=-5mAdc)$	40				
	DC Current Gain					
$h_{FE(2)}$	(V <sub>CE</sub> =-2Vdc, I <sub>C</sub> =-150mAdc) BC636-10	63		160		
	BC636-16,BC638,BC640			250		
$h_{FE(3)}$	DC Current Gain					
	$(V_{CE}=-2Vdc, I_{C}=-500mAdc)$	25				
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage					
	$(I_C=-500 \text{mAdc},I_B=-50 \text{mAdc})$			-0.5	Vdc	
$V_{BE(on)}$	V <sub>BE(on)</sub> Base-Emitter Voltage					
	$(I_C=-500 \text{mAdc}, V_{CE}=-2 \text{Vdc})$			-1.0	Vdc	
$f_T$	Transition Frequency					
	(V <sub>CE</sub> =-5.0Vdc, I <sub>C</sub> =-50mAdc, f=100MHz)				MHz	

# PNP Epitaxial Silicon Transistors



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.170	.190	4.33	4.83	
В	.170	.190	4.30	4.83	
С	.550	.590	13.97	14.97	
D	.010	.020	0.36	0.56	
Е	.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: 20Kpcs/Carton
Part Number-BP	Bulk: 100Kpcs/Carton

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