

**Micro Commercial Components** 



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

### **Features**

- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Capable of 0.5Watts of Power Dissipation.
- Collector-current 3.0A
- Collector-base Voltage 40V
- Operating and storage junction temperature range: -55°C to +150°C
- Marking: B772
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

### Electrical Characteristics @ 25°C Unless Otherwise Specified

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Symbol	Parameter	Min	Max	Units
<b>OFF CHARA</b>	CTERISTICS			
V (BR)CEO	Collector-Emitter Breakdown Voltage $(E=-10mAdc, =0)$		Vdc	
V <sub>(BR)CBO</sub>	Collector-Base Breakdown Voltage (I <sub>c</sub> =-100uAdc, I <sub>E</sub> =0)	-40		Vdc
V <sub>(BR)EBO</sub>	Emitter-Base Breakdown Voltage (I <sub>E</sub> =-100uAdc, I <sub>C</sub> =0)	-5.0		Vdc
I <sub>CBO</sub>	Collector Cutoff Current (V <sub>CB</sub> =-40Vdc, I <sub>E</sub> =0)		-1.0	uAdc
I <sub>CEO</sub>	Collector Cutoff Current (V <sub>CE</sub> =-30Vdc, I <sub>B=</sub> 0)		-10	uAdc
l <sub>ево</sub>	Emitter Cutoff Current $(V_{EB}=-6.0Vdc, I_{C}=0)$		-1.0	uAdc
ON CHARACTERISTICS				
h <sub>FE(1)</sub>	DC Current Gain (I <sub>c</sub> =-1.0Adc, V <sub>CE</sub> =-2.0Vdc)	60	400	

•• FE(1)				
	(I <sub>C</sub> =-1.0Adc, V <sub>CE</sub> =-2.0Vdc)	60	400	
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage			
. ,	(I <sub>C</sub> =-2.0Adc, I <sub>B</sub> =-0.2Adc)		-0.5	Vdc
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage			
	(I <sub>C</sub> =-2.0Adc, I <sub>B</sub> =-0.2Adc)		-1.5	Vdc

### **SMALL-SIGNAL CHARACTERISTICS**

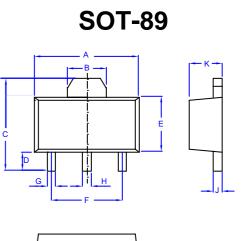
$f_T$ Transistor Frequency ( $I_c$ =-0.1Adc, $V_{cE}$ =-5.0Vdc, f=10MHz)	80		MHz
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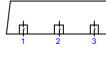
### CLASSIFICATION OF HEELD

Rank	R	0	Y	GR
Range	60-120	100-200	160-320	200-400

BD772-R BD772-O BD772-Y BD772-GR

# PNP Silicon Plastic-Encapsulate Transistor





BASE
COLLETOR
EMITTER

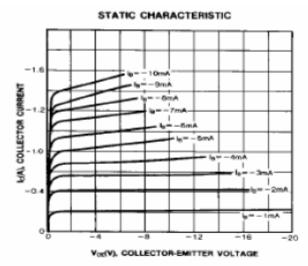
DIM	INC	HES	MM		NOTES
	MIN	MAX	MIN	MAX	
А	.173	.181	4.39	4.60	
В	.061		1.55		REF.
С	.154	.165	3.91	4.25	
D	.031	.039	0.80	1.00	
E	.092	.100	2.34	2.54	
F	.118		3.00		TYP
G	.013	.019	0.33	0.48	
Н	.015	.021	0.38	0.53	
J	.015	.016	0.38	0.41	
K	.055	.063	1.40	1.60	
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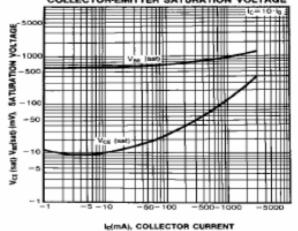


#### **Micro Commercial Components**

## Typical characteristics



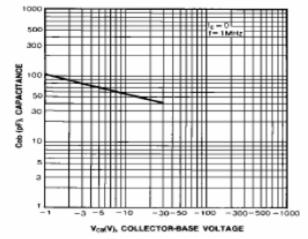
BASE-EMITTER SATURATION VOLTAGE COLLECTOR-EMITTER SATURATION VOLTAGE

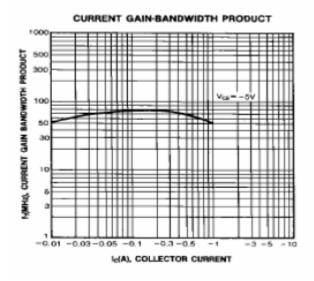


Ic (mA), COLLECTOR CURRENT

DC CURRENT GAIN

COLLECTOR OUTPUT CAPACITANCE





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### **Ordering Information :**

Device	Packing
Part Number-TP	Tape&Reel 1Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

### **\*\*\*IMPORTANT NOTICE\*\*\***

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