



Micro Commercial Components



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

Features

- 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
- Moisture Sensitivity Level 1

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
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OFF CHARACTERISTICS

$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ($I_C=-10mA_{dc}$, $I_B=0$)	-30	---	Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C=-100\mu A_{dc}$, $I_E=0$)	-40	---	Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ($I_E=-100\mu A_{dc}$, $I_C=0$)	-5.0	---	Vdc
I_{CBO}	Collector Cutoff Current ($V_{CB}=-40V_{dc}$, $I_E=0$)	---	-1.0	μA_{dc}
I_{CEO}	Collector Cutoff Current ($V_{CE}=-30V_{dc}$, $I_B=0$)	---	-10	μA_{dc}
I_{EBO}	Emitter Cutoff Current ($V_{EB}=-6.0V_{dc}$, $I_C=0$)	---	-1.0	μA_{dc}

ON CHARACTERISTICS

$h_{FE(1)}$	DC Current Gain ($I_C=-1.0A_{dc}$, $V_{CE}=-2.0V_{dc}$)	60	400	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=-2.0A_{dc}$, $I_B=-0.2A_{dc}$)	---	-0.5	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage ($I_C=-2.0A_{dc}$, $I_B=-0.2A_{dc}$)	---	-1.5	Vdc

SMALL-SIGNAL CHARACTERISTICS

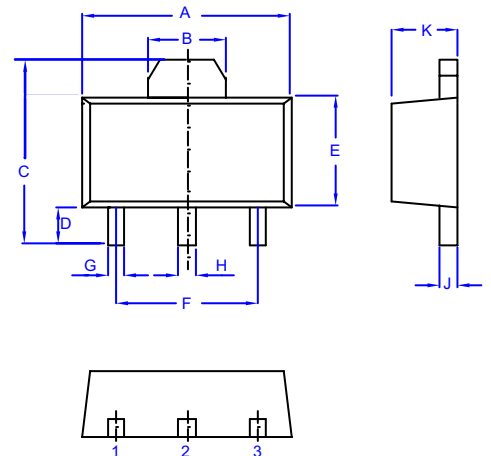
f_T	Transistor Frequency ($I_C=0.1A_{dc}$, $V_{CE}=-5.0V_{dc}$, $f=10MHz$)	80	---	MHz
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CLASSIFICATION OF $h_{FE(1)}$

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

PNP Silicon
Plastic-Encapsulate
Transistor

SOT-89

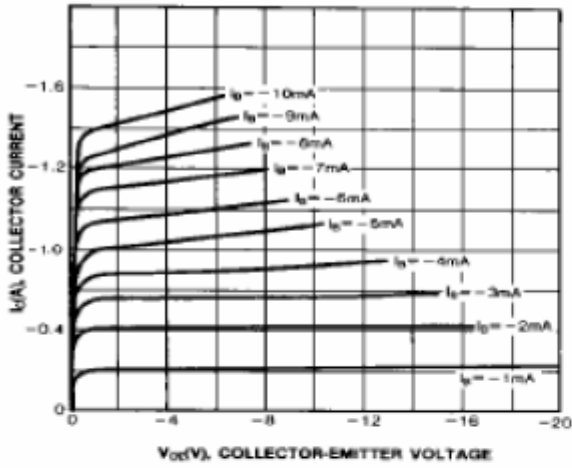


1. BASE
2. COLLECTOR
3. EMITTER

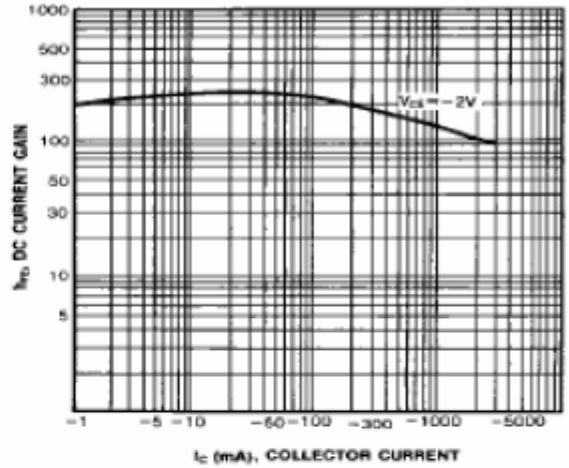
DIM	DIMENSINS				NOTES
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.173	.181	4.39	4.60	
B	.061	----	1.55	----	REF.
C	.154	.165	3.91	4.25	
D	.031	.039	0.80	1.00	
E	.092	.100	2.34	2.54	
F	.118	----	3.00	----	TYP
G	.013	.019	0.33	0.48	
H	.015	.021	0.38	0.53	
J	.015	.016	0.38	0.41	
K	.055	.063	1.40	1.60	

Typical characteristics

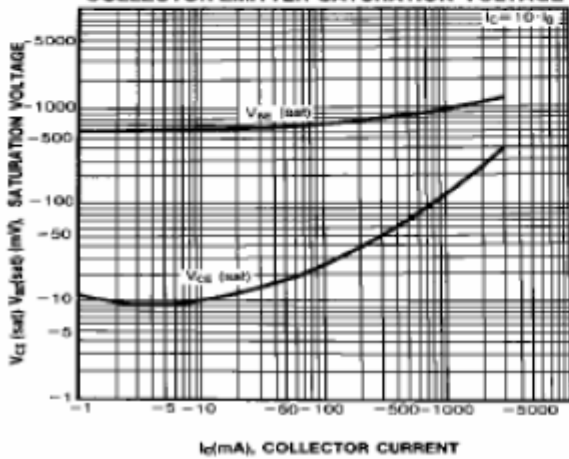
STATIC CHARACTERISTIC



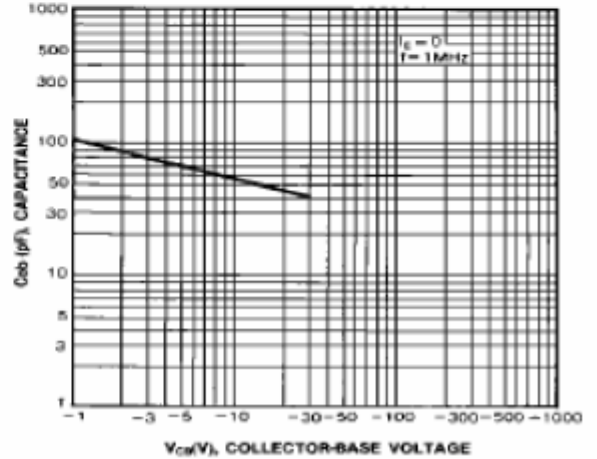
DC CURRENT GAIN



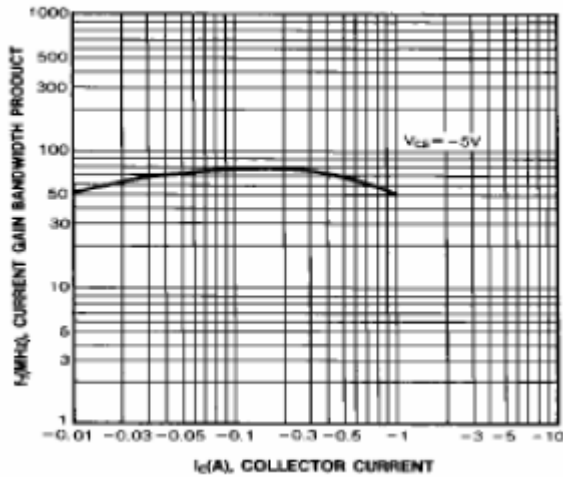
BASE-EMITTER SATURATION VOLTAGE
COLLECTOR-EMITTER SATURATION VOLTAGE



COLLECTOR OUTPUT CAPACITANCE



CURRENT GAIN-BANDWIDTH PRODUCT





TM

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Ordering Information :

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

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