



Micro Commercial Components
21201 Itasca Street Chatsworth
CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

H1061

Features

- Power amplifier applications
- Transistor with TO-220 package

**NPN Silicon
Power Transistors**

Maximum Ratings

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	50	V
V_{CBO}	Collector-Base Voltage	50	V
V_{EBO}	Emitter-Base Voltage	4.0	V
I_C	Collector Current	3.0	A
P_C	Collector power dissipation	25	W
T_J	Junction Temperature	-55 to +150	°C
T_{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
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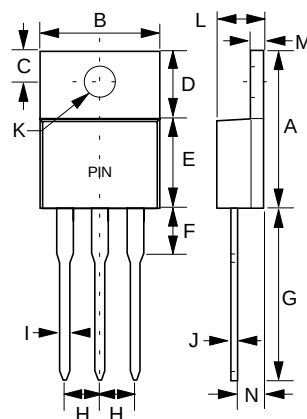
OFF CHARACTERISTICS

V_{CBO}	Collector Base Breakdown Voltage ($I_C=5.0\text{mA}$, $I_E=0$)	50	---	Vdc
V_{CEO}	Collector-Emitter Breakdown Voltage ($I_C=50\text{mA}$, $I_E=0$)	50	---	Vdc
V_{EBO}	Emitter-Base Breakdown Voltage ($I_E=5.0\text{mA}$, $I_C=0$)	4.0	---	Vdc
I_{CBO}	Collector-Base Cutoff Current ($V_{CB}=20\text{Vdc}$, $I_E=0$)	---	100	μA

ON CHARACTERISTICS

h_{FE-1}	Forward Current Transfer Ratio ($I_C=0.1\text{A}$, $V_{CE}=4.0\text{Vdc}$)	35	---	---
h_{FE-2}	Forward Current Transfer Ratio ($I_C=1.0\text{A}$, $V_{CE}=4.0\text{Vdc}$)	35	320	---
h_{FE-3}	Forward Current Transfer Ratio	5.0	---	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=2.0\text{A}$, $I_E=0.2\text{A}$)	---	1.0	Vdc

TO-220



DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.560	.625	14.22	15.88	
B	.380	.420	9.65	10.67	
C	.100	.135	2.54	3.43	
D	.230	.270	5.84	6.86	
E	.380	.420	9.65	10.67	
F	-----	.250	-----	6.35	
G	.500	.580	12.70	14.73	
H	.090	.110	2.29	2.79	
I	.020	.045	0.51	1.14	
J	.012	.025	0.30	0.64	
K	.139	.161	3.53	4.09	Ø
L	.140	.190	3.56	4.83	
M	.045	.055	1.14	1.40	
N	.080	.115	2.03	2.92	