



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

2N3740A

PNP Silicon Power Transistors

Features

- Medium-power amplifier applications
- With TO-66 package

Maximum Ratings

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	60	V
V_{CBO}	Collector-Base Voltage	60	V
V_{EBO}	Emitter-Base Voltage	7.0	V
I_{CP}	Peak Collector Current	10	A
I_C	Collector Current	4.0	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
--------	-----------	-----	-----	-------

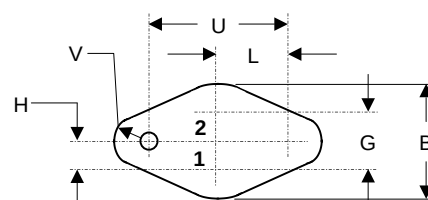
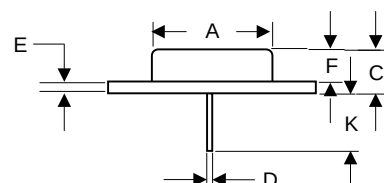
OFF CHARACTERISTICS

$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage* ($I_C=100\text{mA}$, $I_B=0$)	60	---	Vdc
I_{CBO}	Collector-Base Cutoff Current ($V_{CB}=60\text{Vdc}$, $I_E=0$)	---	100	μA
I_{EBO}	Emitter-Base Cutoff Current ($V_{EB}=7.0\text{Vdc}$, $I_C=0$)	---	0.5	mA

ON CHARACTERISTICS

$h_{FE(1)}$	Forward Current Transfer ratio ($I_C=100\text{mA}$, $V_{CE}=1.0\text{Vdc}$)	40	---	---
$h_{FE(2)}$	Forward Current Transfer ratio ($I_C=250\text{mA}$, $V_{CE}=1.0\text{Vdc}$)	30	---	---
$h_{FE(3)}$	Forward Current Transfer ratio ($I_C=500\text{mA}$, $V_{CE}=1.0\text{Vdc}$)	20	---	---
$h_{FE(4)}$	Forward Current Transfer ratio ($I_C=1.0\text{A}$, $V_{CE}=1.0\text{Vdc}$)	10	---	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=1.0\text{A}$, $I_B=125\text{mA}$)	---	0.6	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage ($I_C=250\text{mA}$, $V_{CE}=1.0\text{Vdc}$)	---	1.0	Vdc
f_T	Transition Frequency ($V_{CE}=10\text{Vdc}$, $I_C=100\text{mA}$, $f=1.0\text{MHz}$)	3.0	---	MHz

TO-66



PIN 1. BASE
PIN 2. EMITTER
CASE. COLLECTOR

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.531	.571	13.5	14.5	
B	---	.728	---	18.5	
C	.250	.340	6.35	8.63	
D	.035	.043	0.90	1.10	
E	---	.122	---	3.10	
F	.050	.079	1.27	2.00	
G	.190	.210	4.83	5.33	
H	---	.122	---	3.10	
K	.360	.413	9.15	10.50	
L	---	.540	---	13.70	
U	.898	.913	22.80	23.20	
V	.150	.165	3.80	4.20	