



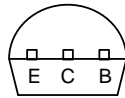
Micro Commercial Components  
 20736 Marilla Street Chatsworth  
 CA 91311  
 Phone: (818) 701-4933  
 Fax: (818) 701-4939

## 2SC2001

### Features

- Capable of 0.6Watts of Power Dissipation.
- Collector-current 0.7A
- Collector-base Voltage 30V
- Operating and storage junction temperature range: -55°C to +150°C

Pin Configuration  
Bottom View



### NPN Silicon Plastic-Encapsulate Transistor

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

Symbol	Parameter	Min	Max	Units
<b>OFF CHARACTERISTICS</b>				
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ( $I_C=10\text{mA}$ , $I_B=0$ )	25	---	Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ( $I_C=100\mu\text{A}$ , $I_E=0$ )	30	---	Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ( $I_E=100\mu\text{A}$ , $I_C=0$ )	5.0	---	Adc
$I_{CBO}$	Collector Cutoff Current ( $V_{CB}=30\text{Vdc}$ , $I_E=0$ )	---	0.1	$\mu\text{A}$
$I_{CEO}$	Collector Cutoff Current ( $V_{CE}=20\text{Vdc}$ , $I_E=0$ )	---	0.1	Vdc
$I_{EBO}$	Emitter Cutoff Current ( $V_{EB}=5.0\text{Vdc}$ , $I_C=0$ )	---	0.1	$\mu\text{A}$

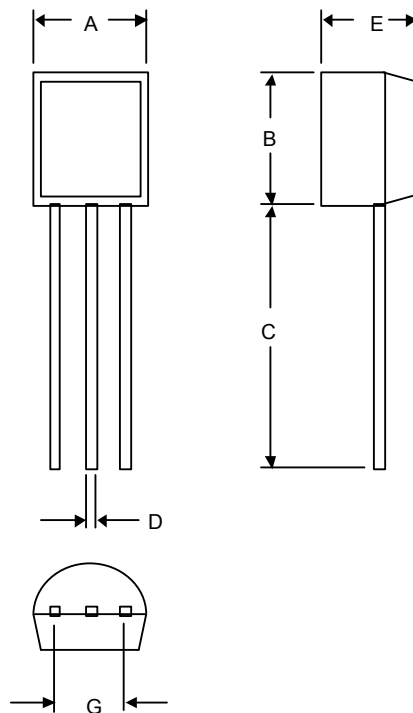
#### ON CHARACTERISTICS

$h_{FE}$	DC Current Gain ( $I_C=100\text{mA}$ , $V_{CE}=1.0\text{Vdc}$ )	90	400	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ( $I_C=700\text{mA}$ , $I_B=70\text{mA}$ )	---	0.6	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage ( $I_C=700\text{mA}$ , $I_B=70\text{mA}$ )	---	1.2	Vdc
fT	Transition Frequency ( $V_{CE}=6.0\text{Vdc}$ , $I_C=10\text{mA}$ , $f=30\text{MHz}$ )	50	---	MHz

#### CLASSIFICATION OF $h_{FE}$

Rank	M	L	K
Range	90-180	135-270	200-400

#### TO-92



#### DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.175	.185	4.45	4.70	
B	.175	.185	4.46	4.70	
C	.500	---	12.7	---	
D	.016	.020	0.41	0.63	
E	.135	.145	3.43	3.68	
G	.095	.105	2.42	2.67	