

**Micro Commercial Components** 

Micro Commercial Components 20736 Marilla Street Chatsworth

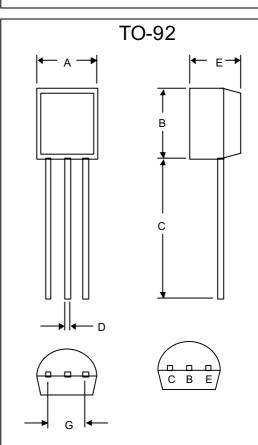
CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 2SC1959

## **Features**

- Audio frequency low power amplifier applications, driver stage amplifier applications, switching applications
- Excellent h<sub>FE</sub> Linearity: h<sub>FE(2)</sub> =25(Min.): V<sub>CE</sub>=6.0V, l<sub>C</sub>=400mA
- 1 Watt Amplifier applications
- Complementary to 2SA562TM.
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Marking: C1959

# Power Silicon NPN Transistor



DIMENSIONS					
	INCHES MM				
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.170	.190	4.33	4.83	
В	.170	.190	4.30	4.83	
C	.550	.590	13.97	14.97	
D	.010	.020	0.36	0.56	
Е	.130	.160	3.30	3.96	
O	.010	.104	2.44	2.64	

# **Maximum Ratings**

Symbol	Rating	Rating	Unit	
$V_{CEO}$	Collector-Emitter Voltage	30	V	
$V_{CBO}$	Collector-Base Breakdown Voltage	35	V	
$V_{EBO}$	Emitter-Base Voltage	5.0	V	
lc	Collector Current	500	mA	
l <sub>Β</sub>	Base Current	100	mA	
$P_{C}$	Collector Power Dissipation	500	mW	
Τ <sub>J</sub>	Operating Junction Temperature	-55 to +150	°C	
$T_{STG}$	Storage Temperature	-55 to +150	°C	

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

Symbol	Parameter	Min	Тур	Max	Units
OFF CHARACTERISTICS					
Ісво	Collector-Base Cutoff Current (V <sub>CB</sub> =35Vdc, <u>k</u> =0)		1	0.1	uAdc
I <sub>EBO</sub>	Emitter-Base Cutoff Current $(V_{EB}=5.0Vdc, \xi=0)$		-	0.1	uAdc

#### **ON CHARACTERISTICS**

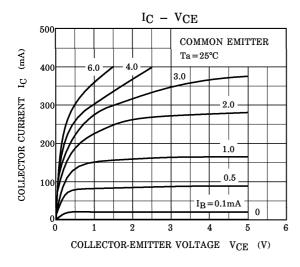
h <sub>FE-1</sub>	DC Current Gain* (L=100mAdc, V <sub>CE</sub> =1.0Vdc)	70		400	
h <sub>FE-2</sub>	DC Current Gain* (b=400mAdc, V <sub>CE</sub> =6.0Vdc)	25	1		
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage (L=100mAdc, L=10mAdc)		0.1	0.25	Vdc
$V_{BE}$	Base-Emitter Voltage (b=100mAdc, V <sub>CE</sub> =1.0Vdc)		0.8	1.0	Vdc
f <sub>⊤</sub>	Transition Frequency (V <sub>CE</sub> =6.0Vdc, b=20mAdc)	200	300	-	$MH_Z$
Сово	Collector Output Capacitance $(V_{CB}=6.0Vdc, \models=0, f=1.0MH_z)$		7.0		pF

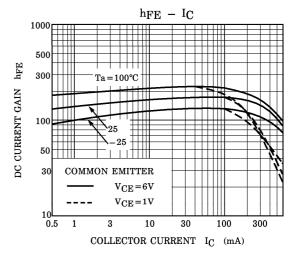
Note: h<sub>FE(1)</sub> Classification O: 70~140, Y: 120~240, GR: 200~400

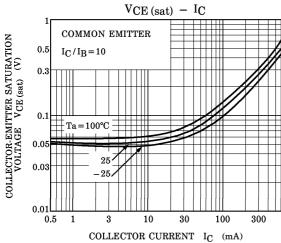
h<sub>FE(1)</sub> Classification O: 25 (Min.), Y: 40 (Min.)

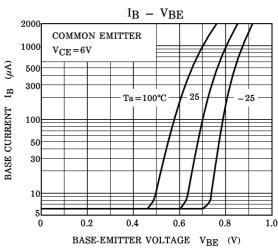
## 2SC1959

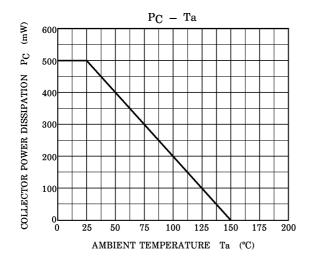














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