

Micro Commercial Components

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

Features

- Audio frequency low power amplifier applications, driver stage amplifier applications, switching applications
- Excellent h_{FE} Linearity: h_{FE(2)} =25(Min.) : V_{CE}=6.0V, I_C=400mA
- 1 Watt Amplifier applications
- Complementary to 2SA562TM.
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL rating 1
- Marking: C1959
- Lead Free Finish/Rohs Compliant ("P"Suffix designates Compliant. See ordering information)

Maximum Ratings

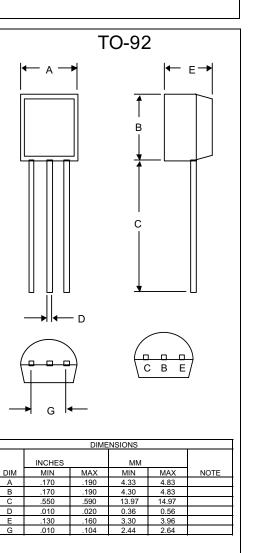
Symbol	Rating	R	ating		Unit	
V_{CEO}	Collector-Emitter Voltage		30		V	
V _{CBO}	Collector-Base Breakdown Voltage		35		V	
V _{EBO}	Emitter-Base Voltage		5.0		V	
I _C	Collector Current	500			mA	
l _B	Base Current	100			mA	
Pc	Collector Power Dissipation	500			mW	
Тj	Operating Junction Temperature	-55 to +150			Oo	
T _{STG}	Storage Temperature	-55 to +150			°C	
	al Characteristics @ 25°C Unle	ss Othe	erwise	Spec i	ified	
Symbol	Parameter	Min	Тур	Max	Units	
OFF CHARA	CTERISTICS					
I _{сво}	Collector-Base Cutoff Current			0.1	uAdc	
	(V _{CB} =35Vdc, <u>↓</u> =0)					
I _{EBO}	Emitter-Base Cutoff Current			0.1	uAdc	
	(V _{EB} =5.0Vdc, <u>k</u> =0)					
ON CHARA	CTERISTICS					
h _{FE-1}	DC Current Gain*	70		400		
	(L=100mAdc, V _{CE} =1.0Vdc)	70		400		
h _{FE-2}	DC Current Gain*	25				
	(L=400mAdc, V _{CE} =6.0Vdc)	25				
V _{CE(sat)}	Collector-Emitter Saturation Voltage		0.1	0.25	Vdc	
	(L=100mAdc, L=10mAdc)		0.1	0.25	Vuc	
V _{BE}	Base-Emitter Voltage		0.8	1.0	Vdc	
	(b=100mAdc, V _{CE} =1.0Vdc)		0.0	1.0	140	
f⊤	Transition Frequency	200	300		MH ₇	
	(V _{CE} =6.0Vdc,	_000	200			
C _{OBO}	Collector Output Capacitance		7.0		pF	
	(V _{CB} =6.0Vdc, 上=0, f=1.0MH _Z)				יק	

 Note:
 h_{FE(1)}
 Classification
 O:
 70~140,
 Y:
 120~240,
 GR:
 200~400

 h_{FE(2)}
 Classification
 O:
 25 (Min.),
 Y:
 40 (Min.)

2SC1959-O 2SC1959-Y 2SC1959-GR

Power Silicon NPN Transistor



www.mccsemi.com

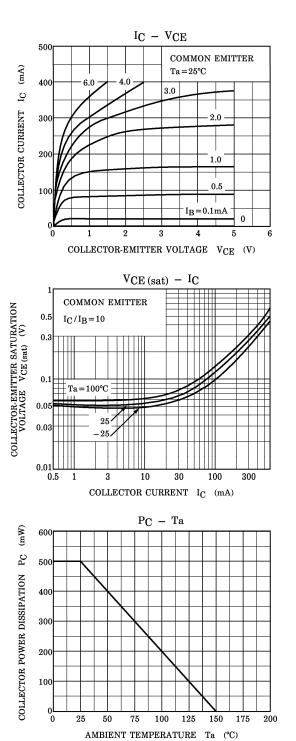
Revision: 5

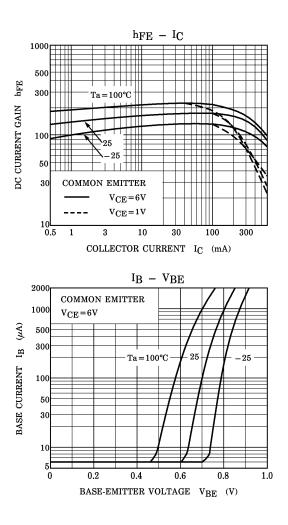
Downloaded from Elcodis.com electronic components distributor

1 of 3

2SC1959







www.mccsemi.com

Revision: 5

2 of 3



Ordering Information

Device	Packing		
(Part Number)-AP	Ammo Packing;2Kpcs/AmmoBox		
(Part Number)-BP	Bulk;1Kpcs/Bag		

IMPORTANT NOTICE

Micro Commercial Components Corp . reserves the right to make changes without further notice to any product herein to make corrections, modifications , enhancements , improvements , or other changes .
 Micro Commercial Components Corp . does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights ,nor the rights of others . The user of products in such applications shall assume all risks of such use and will agree to hold Micro Commercial Components Corp . and all the companies whose products are represented on our website, harmless against all damages.

APPLICATIONS DISCLAIMER

Products offer by Micro Commercial Components Corp. are not intended for use in Medical,

Aerospace or Military Applications.

www.mccsemi.com