

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.) : $V_{CE} = 6.0$ V, $I_C = 400$ mA
- 1 Watt Amplifier applications
- Complementary to 2SA562TM.
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Marking: C1959
- Lead Free Finish/Rohs Compliant ("P"Suffix designates RoHS Compliant. See ordering information)

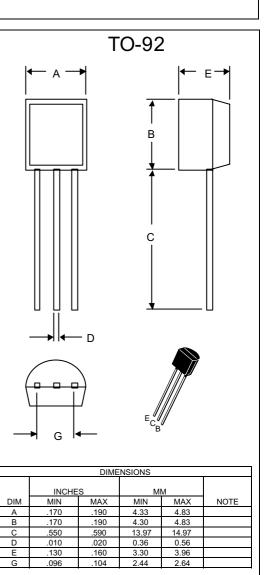
Maximum Ratings

Symbol	Rating	R	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	
l _c	Collector Current	500			mA	
l _в	Base Current		100		mA	
Pc	Collector Power Dissipation	500			mW	
TJ	Operating Junction Temperature	-55	-55 to +150		°C	
T _{STG}	Storage Temperature	-55	-55 to +150		°C	
Electrica	al Characteristics @ 25°C Unle	ss Otho	erwise	Spec i	ified	
Symbol	Parameter	Min	Тур	Max	Units	
OFF CHARA	CTERISTICS					
І _{сво}	Collector-Base Cutoff Current			0.1	uAdc	
	(V _{CB} =35Vdc, <u></u>					
I _{EBO}	Emitter-Base Cutoff Current			0.1	uAdc	
	(V _{EB} =5.0Vdc, _b =0)					
ON CHARA	CTERISTICS					
h _{FE-1}	DC Current Gain*	70		400		
	(L=100mAdc, V _{CE} =1.0Vdc)	70				
h _{FE-2}	DC Current Gain*	25				
	(L=400mAdc, V _{CE} =6.0Vdc)	20				
V _{CE(sat)}	Collector-Emitter Saturation Voltage		0.1	0.25	Vdc	
	(L=100mAdc, L=10mAdc)		0.1	0.20	Vuo	
V_{BE}	Base-Emitter Voltage		0.8	1.0	Vdc	
	(b=100mAdc, V _{CE} =1.0Vdc)		0.0			
f _T	Transition Frequency	200	300		MHz	
	(V _{CE} =6.0Vdc, <u></u>					
C _{OBO}	Collector Output Capacitance		7.0		pF	
	(V _{CB} =6.0Vdc, <u>k</u> =0, f=1.0MH _Z) Classification O: 70~140, Y: 120~240,		-		F	

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

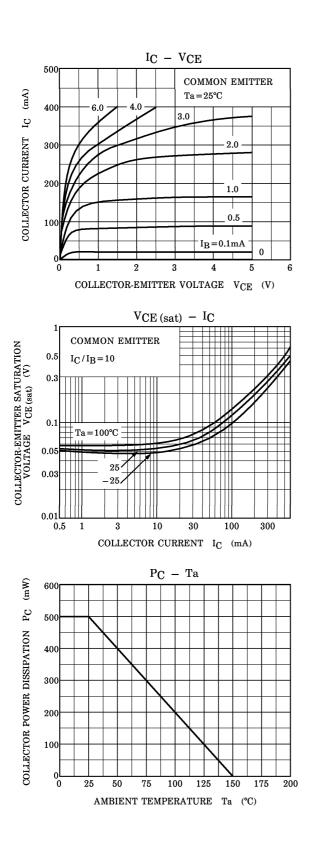
Power Silicon NPN Transistor

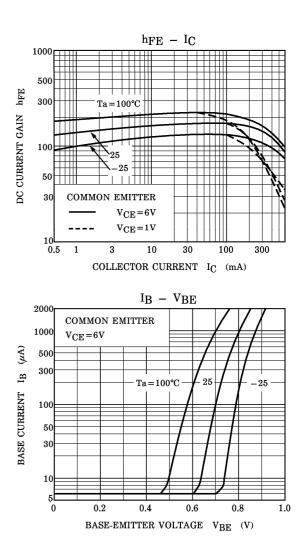


www.mccsemi.com

2SC1959







www.mccsemi.com



Ordering Information :

Device	Packing		
Part Number-AP	Ammo Packing: 2Kpcs/Ammo Box		
Part Number-BP	Bulk: 100Kpcs/Carton		

*****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.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

www.mccsemi.com