

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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

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, l_C=400mA
- 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)
- Halogen free available upon request by adding suffix "-HF"

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
Ι _C	Collector Current	500	mA
l _B	Base Current	100	mA
P _C	Collector Power Dissipation	500	mW
Tر	Operating Junction Temperature	-55 to +150	°C
T _{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter

	OFF CHARACTERISTICS					
1	l _{сво}	Collector-Base Cutoff Current			0.1	μAdc
ı		(V _{CB} =35Vdc, <u></u>				
1	I _{EBO}	Emitter-Base Cutoff Current			0.1	μAdc
		(\/_=5.0\/dc_L=0\				1

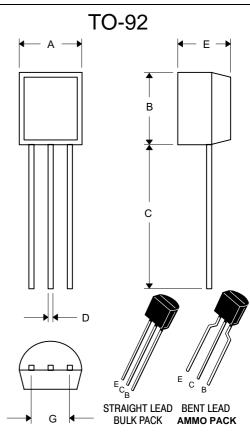
ON CHARACTERISTICS

Symbol

h _{FE-1}	DC Current Gain* (b=100mAdc, V _{CE} =1.0Vdc)	70		400	
h _{FE-2}	DC Current Gain* (b=400mAdc, V _{CE} =6.0Vdc)	25	5		
V _{CE(sat)}	Collector-Emitter Saturation Voltage (L=100mAdc, L=10mAdc)		0.1	0.25	Vdc
V_{BE}	Base-Emitter Voltage (b=100mAdc, V _{CE} =1.0Vdc)		8.0	1.0	Vdc
f _⊤	Transition Frequency (V _{CE} =6.0Vdc, b=20mAdc)	200	300		MH_Z
С _{ОВО}	Collector Output Capacitance (V _{CB} =6.0Vdc, ½=0, f=1.0MH _z)		7.0		pF

Note: h_{FE(1)} Classification O: 70~140, Y: 120~240, GR: 200~400 h_{FE(2)} Classification O: 25 (Min.), Y: 40 (Min.)

Power Silicon NPN Transistor



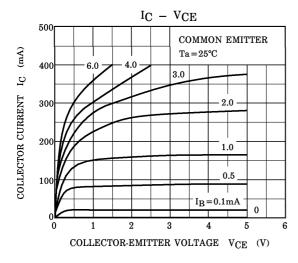
DIMENSIONS						
	INCHE	ΞS	MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.175	.185	4.45	4.70		
В	.175	.185	4.45	4.70		
С	.500		12.70			
D	.016	.020	0.41	0.63		
Е	.135	.145	3.43	3.68		
G	.095	.105	2.42	2.67	Straight Lead	
G	.173	.220	4.40	5.60	Bent Lead	

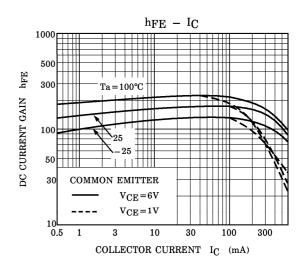
^{*} For ammo packing detailed specification, click here to visit our website of product packaging for details.

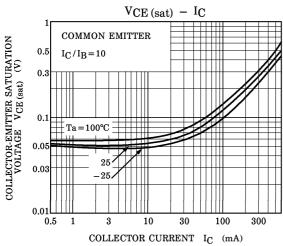
Min Typ Max Units

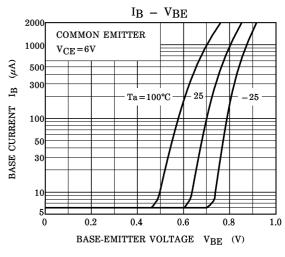
2SC1959

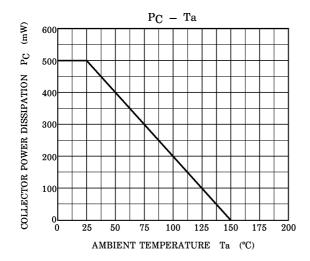














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Ordering Information:

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

Note: Adding "-HF" suffix for halogen free, eg. Part Number-AP-HF

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