



Micro Commercial Components



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

2SC2881-O 2SC2881-Y

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- With SOT-89 package
- Power amplifier applications
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

Symbol	Rating	Rating	Unit
V _{CEO}	Collector-Emitter Voltage	120	V
V _{CBO}	Collector-Base Voltage	120	V
V _{EBO}	Emitter-Base Voltage	5.0	V
I _C	Collector Current	800	mA
I _B	Base Current	160	mA
P _C	Collector power dissipation	500 1000(Note 1)	mW
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 to +150	°C

Note 1: Mounted on ceramic substrate (250mm² x 0.8t)

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ.	Max	Units
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OFF CHARACTERISTICS

V _{(BR)CEO}	Collector-Emitter Breakdown Voltage* (I _C =10mA, I _B =0)	120	---	---	Vdc
V _{(BR)EBO}	Collector-Emitter Breakdown Voltage* (I _E =1mA, I _C =0)	5	---	---	Vdc
I _{CBO}	Collector-Base Cutoff Current (V _{CB} =120Vdc, I _E =0)	---	---	0.1	uA
I _{EBO}	Emitter-Base Cutoff Current (V _{EB} =5.0Vdc, I _C =0)	---	---	0.1	uA

ON CHARACTERISTICS

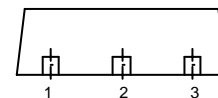
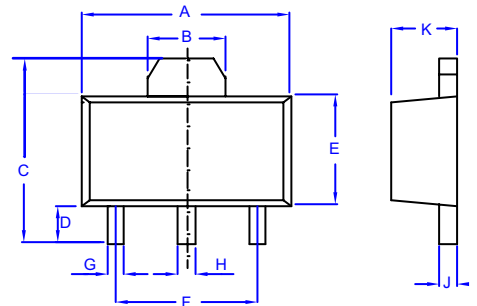
h _{FE}	Forward Current Transfer ratio (I _C =0.1A, V _{CE} =5.0Vdc)	80	---	240	---
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _C =0.5A, I _B =50mA)	---	---	1.0	Vdc
V _{BE}	Base-Emitter Voltage (I _C =0.5A, V _{CE} =5.0Vdc)	---	---	1.0	Vdc
f _T	Transition Frequency (I _C =0.1A, V _{CE} =5.0Vdc)	---	120	---	MHz
C _{ob}	Collector Output Capacitance (V _{CB} =10V, I _E =0, f=1MHz)	---	---	30	pF

CLASSIFICATION OF H_{FE}

Rank	O	Y
Range	80-160	120-240
Marking	CO1	CY1

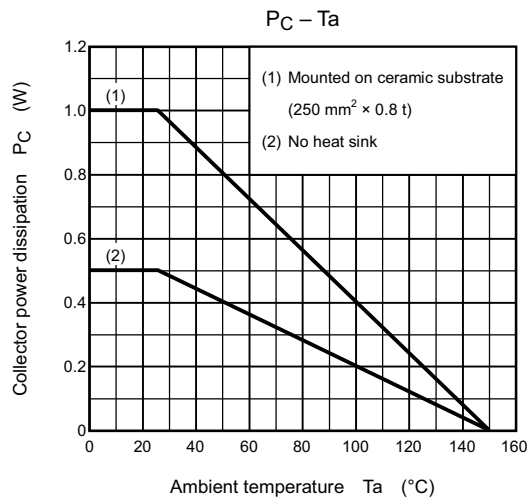
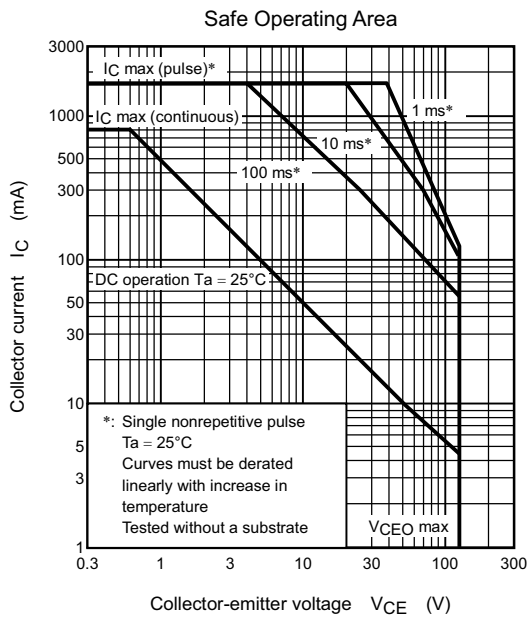
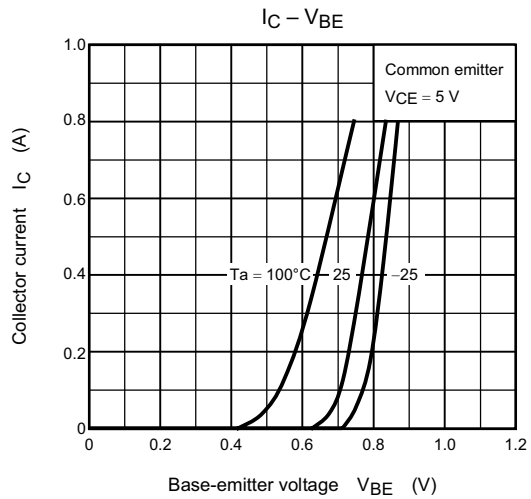
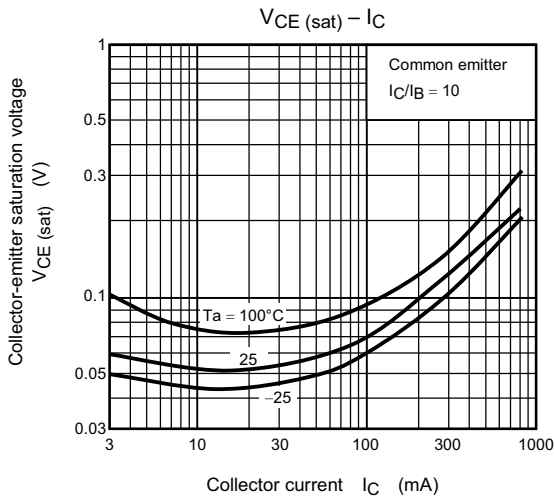
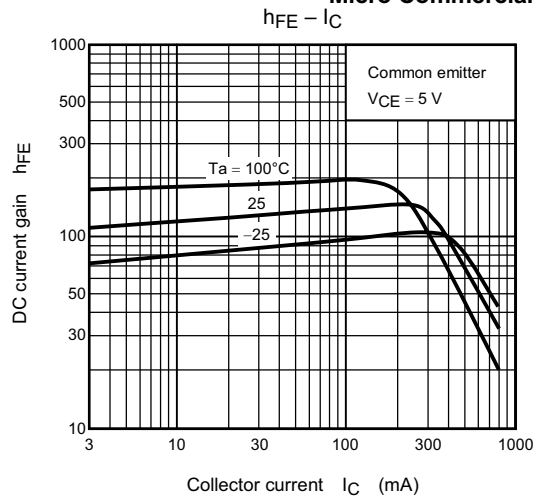
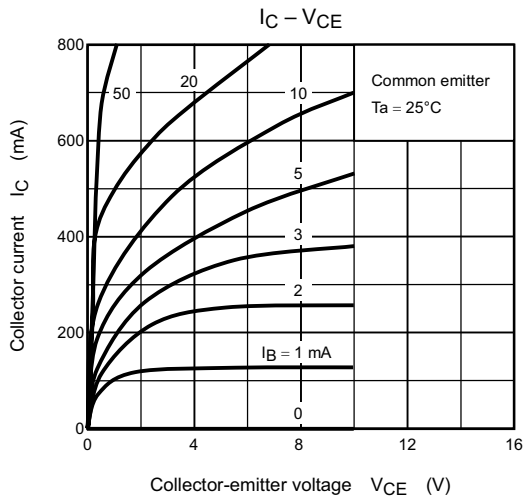
NPN Silicon Power Transistors

SOT-89



- 1.BASE
- 2.COLLECTOR
- 3.EMITTER

DIM	DIMENSINS				NOTES
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.173	.181	4.39	4.60	
B	.063	.071	1.60	1.80	
C	.154	.165	3.91	4.25	
D	.031	.039	0.80	1.00	
E	.092	.100	2.34	2.54	
F	.118	----	3.00	----	TYP
G	.013	.019	0.33	0.48	
H	.015	.021	0.38	0.53	
J	.015	.016	0.38	0.41	
K	.055	.063	1.40	1.60	





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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel; 1Kpcs/Reel

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

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