

Micro Commercial Components



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

Features

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

Maximum Ratings

Symbol	Rating	Rating	Unit	
V _{CEO}	Collector-Emitter Voltage	30	V	
V _{CBO}	Collector-Base Voltage	30 V		
V_{EBO}	Emitter-Base Voltage	5.0	V	
I _C	Collector Current	1500	mA	
Pc	Collector power dissipation	500	mW	
TJ	Junction Temperature	150 °C		
T _{STG}	Storage Temperature	-55 to +150 ℃		

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Тур.	Max	Units		
OFF CHARA	CTERISTICS						
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage* $(I_c=10mAdc, I_B=0)$	30			Vdc		
$V_{(BR)EBO}$	Collector-Emitter Breakdown Voltage* (I _E =1mAdc, I _C =0)	5			Vdc		
I _{CBO}	Collector-Base Cutoff Current (V _{CB} =30Vdc,I _E =0)			0.1	µAdc		
I _{EBO}	Emitter-Base Cutoff Current (V _{EB} =5.0Vdc, I _C =0)			0.1	µAdc		
ON CHARA	CTERISTICS						
h _{FE}	Forward Current Transfer ratio (I _c =0.5Adc, V _{ce} =2.0Vdc)	100		320			
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage (I _c =1.5Adc, I _B =30mAdc)	tor-Emitter Saturation Voltage 2.0 Vdc					
V_{BE}	Base-Emitter Voltage (I _C =0.5Adc, V _{CE} =2.0Vdc)			Vdc			
f⊤	Transition Frequency 120 (I _C =0.5Adc, V _{CF} =2.0Vdc) 120		MHz				
C _{ob}	Collector Output Capacitance (V _{CB} =10V, I _E =0, f=1MHz)			40	pF		

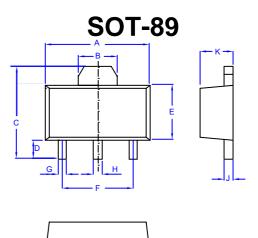
CLASSIFICATION OF HFE

Rank	0	Y		
Range	100-200	160-320		
Marking	GO	GY		

2SC2883-0

2SC2883-Y

NPN Silicon Power Transistors



上中¹ 中² 1.BASE 2.COLLECTOR

3.EMITTER

DIMENSINS						
DIM	INC	HES	MM		NOTES	
	MIN	MAX	MIN	MAX		
A	.173	.181	4.39	4.60		
В	.061		1.55		REF.	
С	.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		
Н	.015	.021	0.38	0.53		
J	.015	.016	0.38	0.41		
K	.055	.063	1.40	1.60		

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2SC2883

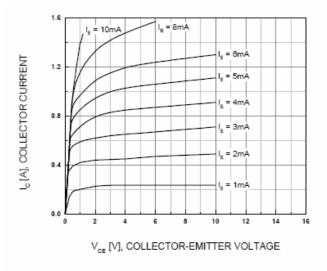


Figure 1. Static Characteristics

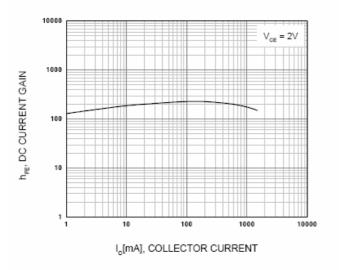
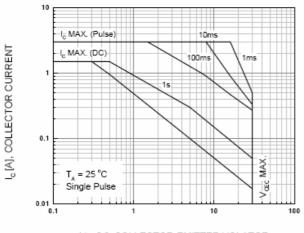
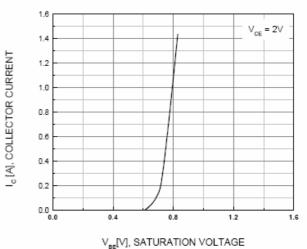


Figure 3. DC Current Gain





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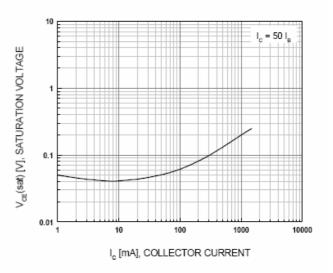


Figure 4. Collector-Emitter Saturation Voltage

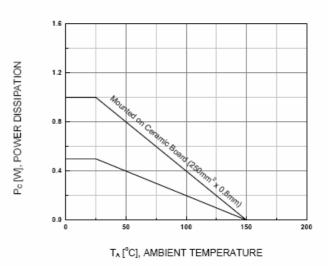


Figure 6. Power Derating

V_{ce} [V], COLLECTOR-EMITTER VOLATGE Figure 5. Safe Operating Area

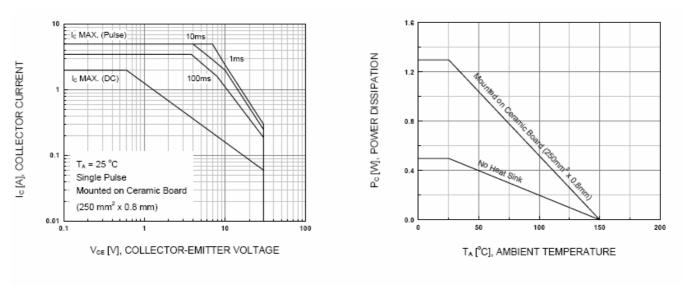
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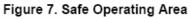


Figure 8. Power Derating

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Ordering Information :

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

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

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