



**Micro Commercial Components** 

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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## Features

- Halogen free available upon request by adding suffix "-HF"
- Low saturation voltage
- High speed switching time
- Complementary to 2SA1213
- 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	50	V
$V_{CBO}$	V <sub>CBO</sub> Collector-Base Voltage		V
$V_{EBO}$	Emitter-Base Voltage	5.0	V
I <sub>C</sub>	Collector Current	2.0	Α
Pc	Collector power dissipation	0.5	W
TJ	Junction Temperature	150	$^{\circ}\mathbb{C}$
T <sub>STG</sub>	Storage Temperature	-55 to +150	$^{\circ}\mathbb{C}$

## Electrical Characteristics @ 25% Unless Otherwise Specified

Symbol	mbol Parameter			Max	Units
OFF CHAR	OFF CHARACTERISTICS				
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (I <sub>C</sub> =1mAdc, I <sub>B</sub> =0)	50			Vdc
V <sub>(BR)CBO</sub>	Collector-Base Breakdown Voltage (I <sub>C</sub> =0.1mAdc, I <sub>B</sub> =0)	50			Vdc
V <sub>(BR)EBO</sub>	$V_{\text{(BR)EBO}}$ Emitter-Base Breakdown Voltage $V_{\text{I}}$ (I <sub>E</sub> =0.1mAdc, I <sub>C</sub> =0)				Vdc
$I_{CBO}$ Collector-Base Cutoff Current $(V_{CB}=50\text{Vdc},I_E=0)$				0.1	uAdc
I <sub>EBO</sub> Emitter-Base Cutoff Current (V <sub>EB</sub> =5.0Vdc, I <sub>C</sub> =0)				0.1	uAdc

#### ON CHARACTERISTIC

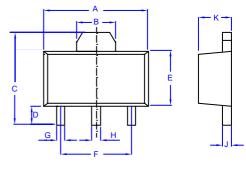
h <sub>FE(1)</sub>	DC Current Gain (I <sub>C</sub> =0.5Adc, V <sub>CE</sub> =2.0Vdc)	70		240	
h <sub>FE(2)</sub>	DC Current Gain * (I <sub>C</sub> =2.0Adc, V <sub>CE</sub> =2.0Vdc)	20			
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage (I <sub>C</sub> =1.0Adc, I <sub>B</sub> =0.05Adc)			0.5	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage (I <sub>C</sub> =1.0Adc,I <sub>B</sub> =0.05Adc)			1.2	Vdc
f <sub>⊤</sub>	Transition Frequency (V <sub>CE</sub> =2.0Vdc, I <sub>C</sub> =0.5Adc)		120		MHz
C <sub>ob</sub>	Collector output capacitance (V <sub>CB</sub> =10Vdc,I <sub>E</sub> =0, f=1.0MHz)		30		pF

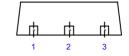
#### CLASSIFICATION OF HEED

0==00==0==0==0==				
Rank	0	Υ		
Range	70-140	120-240		
Marking	МО	MY		

# NPN Silicon Epitaxial Transistors







- 1. Base
- 2. Collector
- 3. Emitter

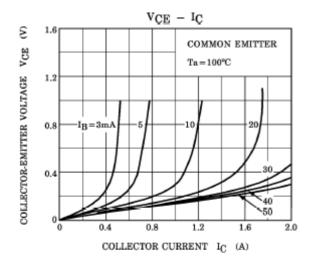
DIMENSINS					
DIM	INCHES		MM		NOTES
	MIN	MAX	MIN	MAX	
Α	.173	.181	4.39	4.60	
В	.063	.071	1.60	1.80	
С	.154	.165	3.91	4.19	
D	.031	.039	0.80	1.00	
E	.092	.100	2.34	2.54	
F	.118		3.00		TYP
G	.013	.019	0.33	0.48	
Н	.015	.021	0.38	0.53	
J	.015	.016	0.38	0.41	
K	.055	.063	1.40	1.60	

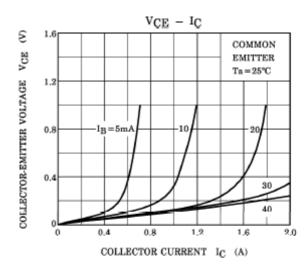
www.mccsemi.com

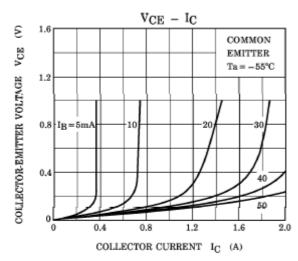
## 2SC2873

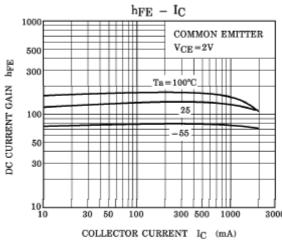


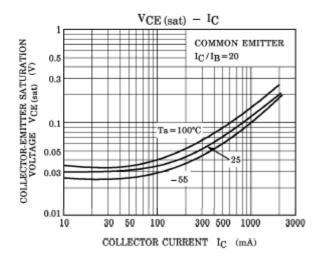
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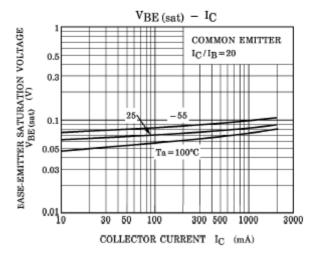






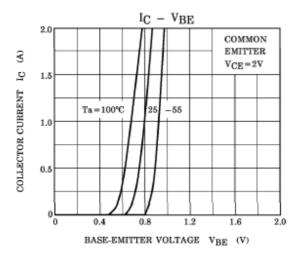


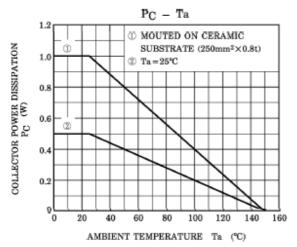


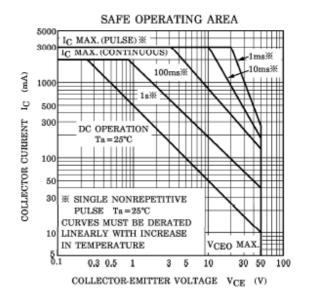


# 2SC2873











## **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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