



Micro Commercial Components



Micro Commercial Components  
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## 2SC2873-O 2SC2873-Y

### Features

- 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
- Moisture Sensitivity Level 1

### Maximum Ratings

Symbol	Rating	Rating	Unit
V <sub>CEO</sub>	Collector-Emitter Voltage	50	V
V <sub>CBO</sub>	Collector-Base Voltage	50	V
V <sub>EBO</sub>	Emitter-Base Voltage	5.0	V
I <sub>C</sub>	Collector Current	2.0	A
P <sub>C</sub>	Collector power dissipation	0.5	W
T <sub>J</sub>	Junction Temperature	150	°C
T <sub>STG</sub>	Storage Temperature	-55 to +150	°C

### Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
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#### OFF CHARACTERISTICS

V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage (I <sub>C</sub> =1mA <sub>dc</sub> , I <sub>B</sub> =0)	50	---	---	Vdc
V <sub>(BR)CBO</sub>	Collector-Base Breakdown Voltage (I <sub>C</sub> =0.1mA <sub>dc</sub> , I <sub>E</sub> =0)	50	---	---	Vdc
V <sub>(BR)EBO</sub>	Emitter-Base Breakdown Voltage (I <sub>E</sub> =0.1mA <sub>dc</sub> , I <sub>C</sub> =0)	5.0	---	---	Vdc
I <sub>CBO</sub>	Collector-Base Cutoff Current (V <sub>CB</sub> =50Vdc, I <sub>E</sub> =0)	---	---	0.1	uA <sub>dc</sub>
I <sub>EBO</sub>	Emitter-Base Cutoff Current (V <sub>EB</sub> =5.0Vdc, I <sub>C</sub> =0)	---	---	0.1	uA <sub>dc</sub>

#### ON CHARACTERISTIC

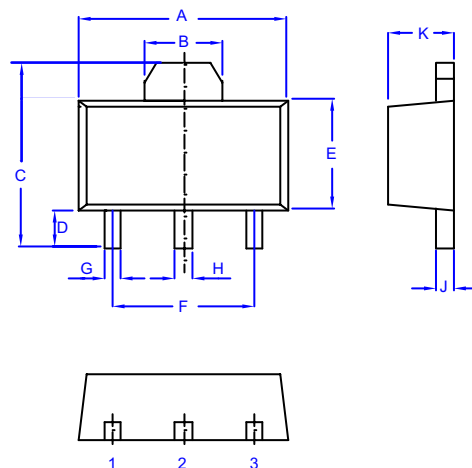
h <sub>FE(1)</sub>	DC Current Gain (I <sub>C</sub> =0.5A <sub>dc</sub> , V <sub>CE</sub> =2.0Vdc)	70	---	240	---
h <sub>FE(2)</sub>	DC Current Gain * (I <sub>C</sub> =2.0A <sub>dc</sub> , V <sub>CE</sub> =2.0Vdc)	20	---	---	---
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage (I <sub>C</sub> =1.0A <sub>dc</sub> , I <sub>B</sub> =0.05A <sub>dc</sub> )	---	---	0.5	Vdc
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage (I <sub>C</sub> =1.0A <sub>dc</sub> , I <sub>B</sub> =0.05A <sub>dc</sub> )	---	---	1.2	Vdc
f <sub>T</sub>	Transition Frequency (V <sub>CE</sub> =2.0Vdc, I <sub>C</sub> =0.5A <sub>dc</sub> )	---	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 h<sub>FE(1)</sub>

Rank	O	Y
Range	70-140	120-240
Marking	MO	MY

## NPN Silicon Epitaxial Transistors

### SOT-89



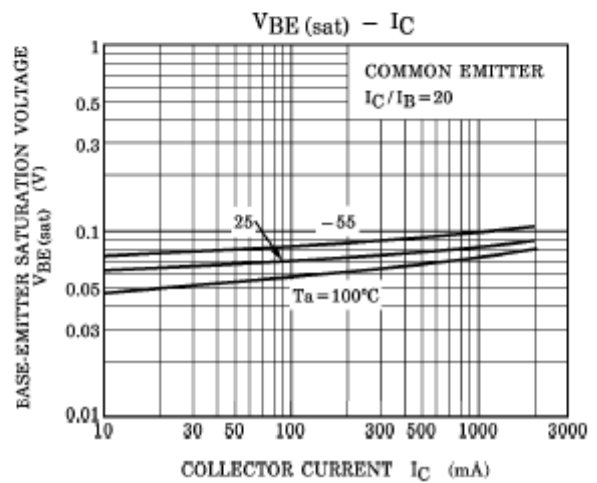
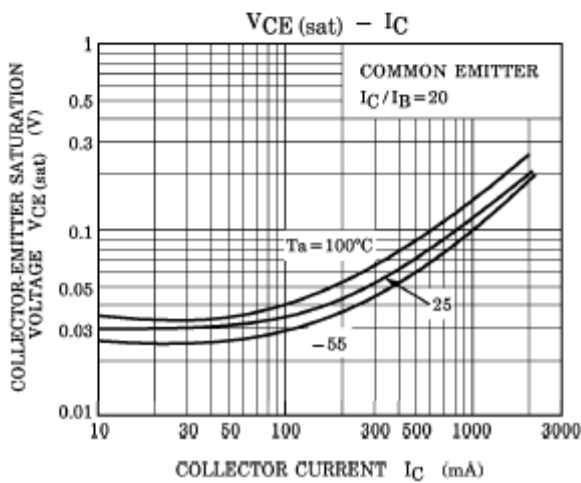
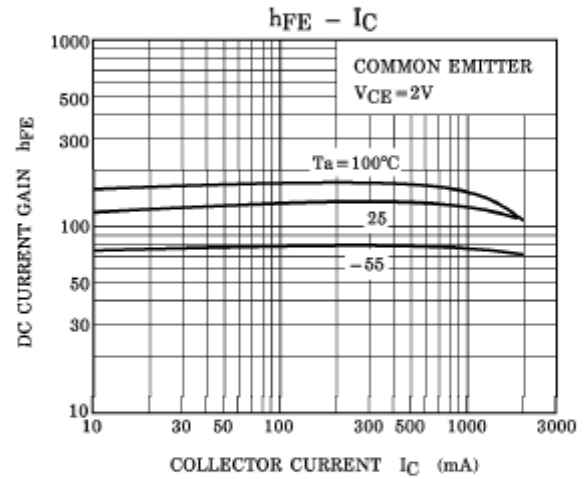
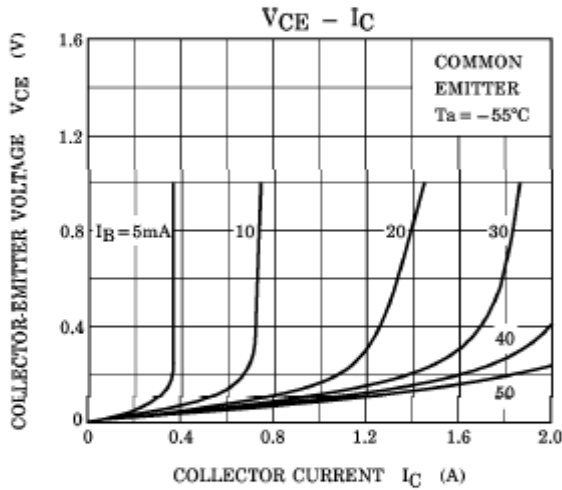
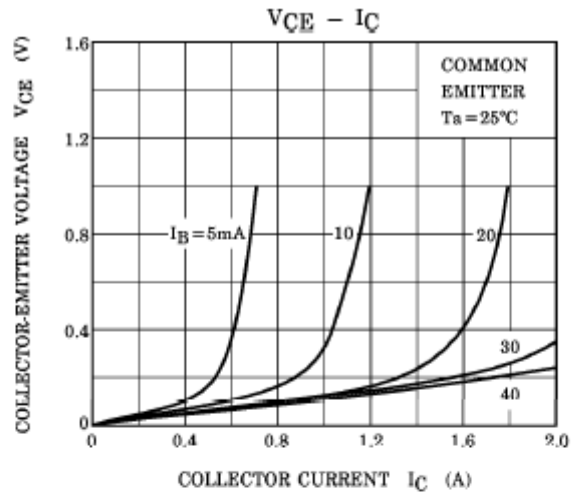
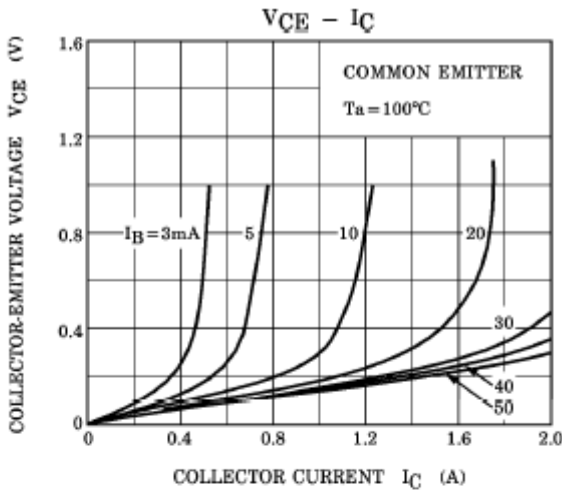
1. Base
2. Collector
3. Emitter

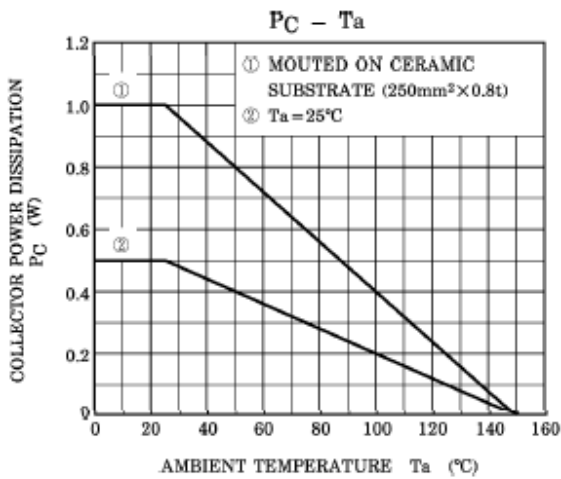
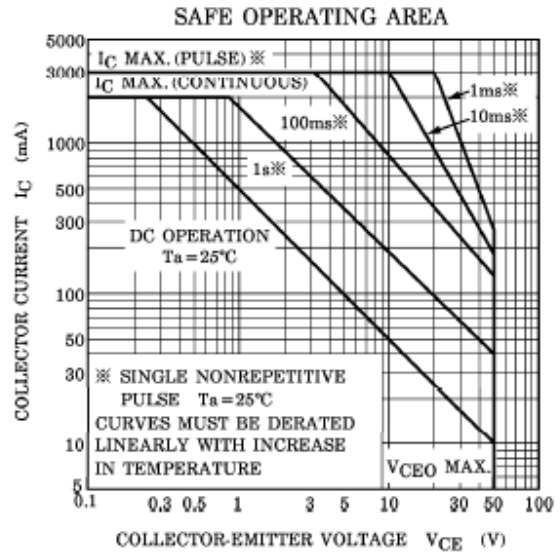
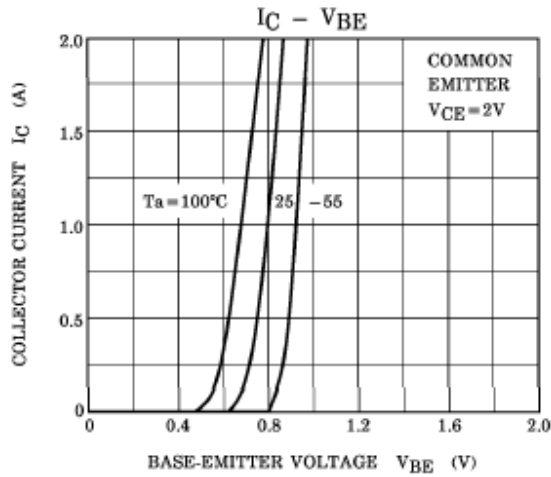
DIM	DIMENSIONS				NOTES
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.173	.181	4.39	4.60	
B	.063	.071	1.60	1.80	
C	.154	.165	3.91	4.19	
D	.031	.039	0.80	1.00	
E	.092	.100	2.34	2.54	
F	.118	----	3.00	----	TYP
G	.013	.019	0.33	0.48	
H	.015	.021	0.38	0.53	
J	.015	.016	0.38	0.41	
K	.055	.063	1.40	1.60	

# 2SC2873



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TM

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## Ordering Information :

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

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