



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 _{CEO}	Collector-Emitter Voltage	50	V
V _{CBO}	Collector-Base Voltage	50	V
V _{EBO}	Emitter-Base Voltage	5.0	V
I _C	Collector Current	2.0	A
P _C	Collector power dissipation	0.5	W
T _J	Junction Temperature	150	°C
T _{STG}	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 _{(BR)CEO}	Collector-Emitter Breakdown Voltage (I _C =1mA _{dc} , I _B =0)	50	---	---	Vdc
V _{(BR)CBO}	Collector-Base Breakdown Voltage (I _C =0.1mA _{dc} , I _B =0)	50	---	---	Vdc
V _{(BR)EBO}	Emitter-Base Breakdown Voltage (I _E =0.1mA _{dc} , I _C =0)	5.0	---	---	Vdc
I _{CBO}	Collector-Base Cutoff Current (V _{CB} =50Vdc, I _E =0)	---	---	0.1	uA _{dc}
I _{EBO}	Emitter-Base Cutoff Current (V _{EB} =5.0Vdc, I _C =0)	---	---	0.1	uA _{dc}

ON CHARACTERISTIC

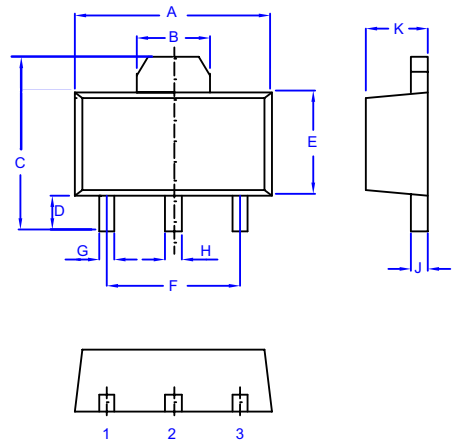
h _{FE(1)}	DC Current Gain (I _C =0.5A _{dc} , V _{CE} =2.0Vdc)	70	---	240	---
h _{FE(2)}	DC Current Gain * (I _C =2.0A _{dc} , V _{CE} =2.0Vdc)	20	---	---	---
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _C =1.0A _{dc} , I _B =0.05A _{dc})	---	---	0.5	Vdc
V _{BE(sat)}	Base-Emitter Saturation Voltage (I _C =1.0A _{dc} , I _B =0.05A _{dc})	---	---	1.2	Vdc
f _T	Transition Frequency (V _{CE} =2.0Vdc, I _C =0.5A _{dc})	---	120	---	MHz
C _{ob}	Collector output capacitance (V _{CB} =10Vdc, I _E =0, f=1.0MHz)	---	30	---	pF

CLASSIFICATION OF h_{FE(1)}

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

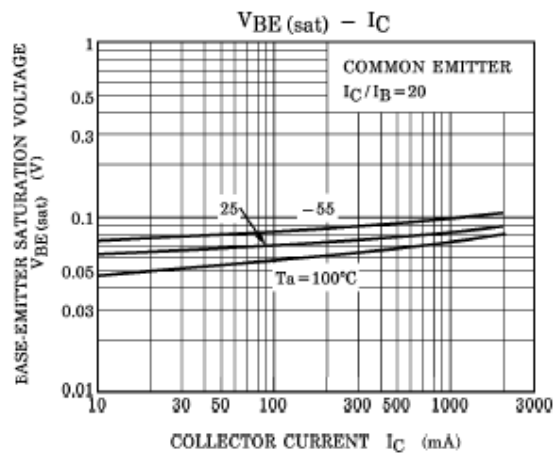
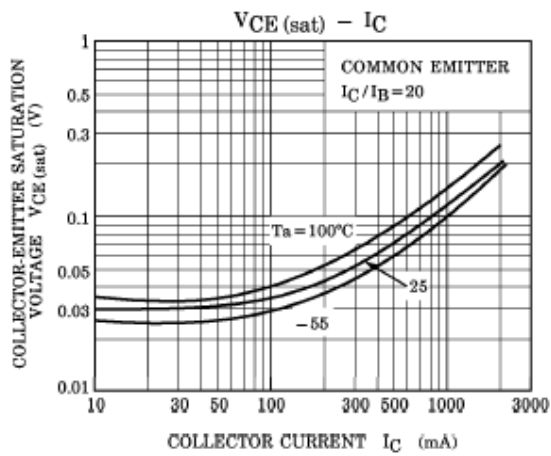
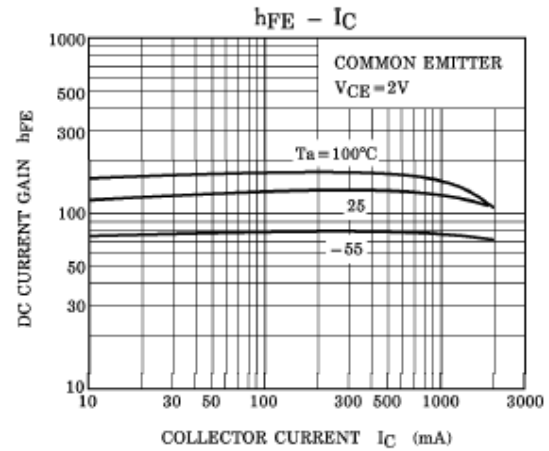
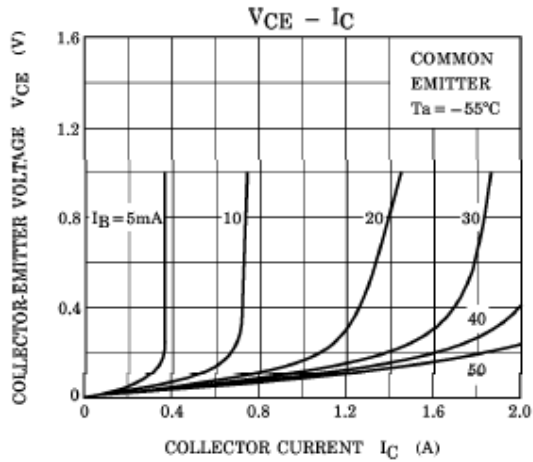
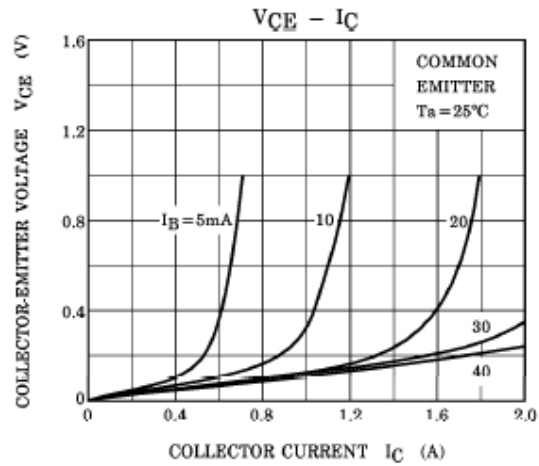
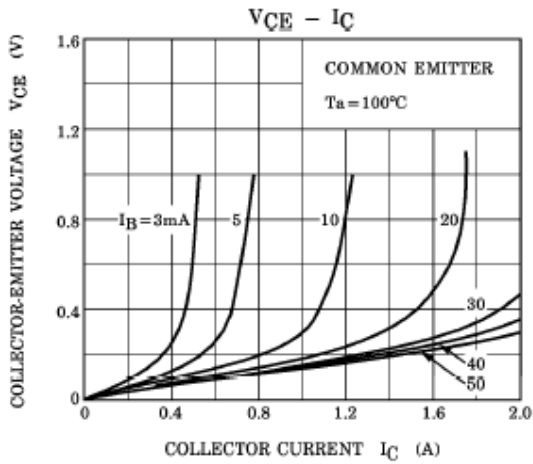
NPN Silicon Epitaxial Transistors

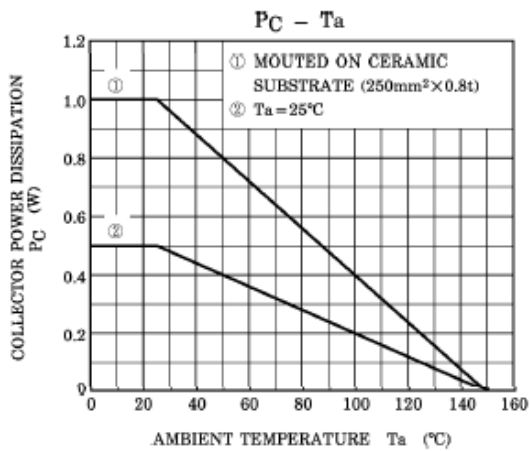
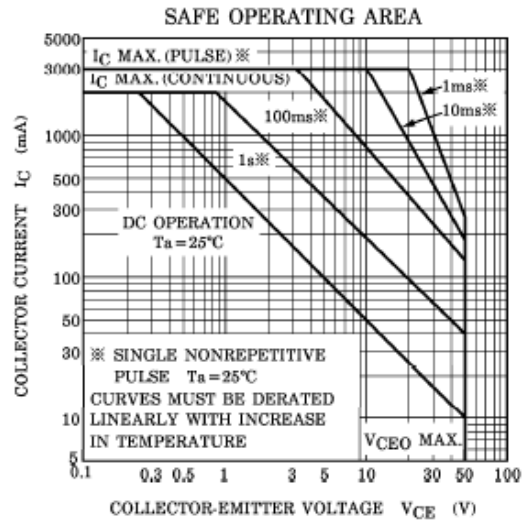
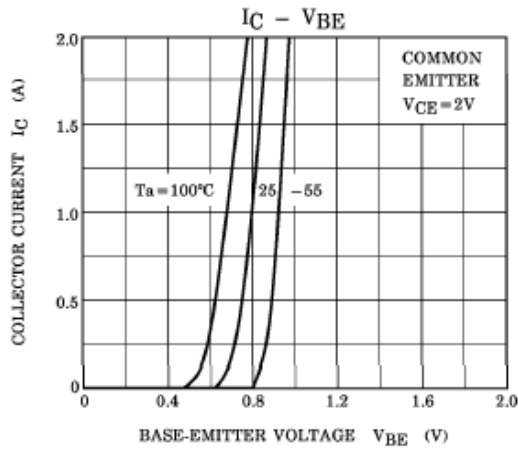
SOT-89



1. Base
2. Collector
3. Emitter

DIM	DIMENSIONS				NOTES
	INCHES		MM		
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	







Micro Commercial Components

Ordering Information :

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

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