



2SC2383P-O
2SC2383P-Y

NPN Silicon
Plastic-Encapsulate
Transistor

Features

- Halogen free available upon request by adding suffix "-HF"
- Capable of 0.5Watts of Power Dissipation.
- Collector-current 1.0A
- Collector-base Voltage 160V
- Operating and storage junction temperature range: -55°C to +150°C
- Marking: 2383
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
OFF CHARACTERISTICS				
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ($I_C=10\text{mAdc}$, $I_B=0$)	160		Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C=100\mu\text{Adc}$, $I_E=0$)	160		Vdc
$V_{(BR)EBO}$	Emitter-Base Voltage ($I_E=10\mu\text{Adc}$, $I_C=0$)	6.0		Vdc
I_{CBO}	Collector Cutoff Current ($V_{CB}=150\text{Vdc}$, $I_E=0$)		1.0	μAdc
I_{EBO}	Emitter Cutoff Current ($V_{EB}=6.0\text{Vdc}$, $I_C=0$)		1.0	μAdc

ON CHARACTERISTICS

h_{FE}	DC Current Gain ($I_C=200\text{mAdc}$, $V_{CE}=5.0\text{Vdc}$)	100	320	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=500\text{mAdc}$, $I_B=50\text{mAdc}$)		1.0	Vdc
V_{BE}	Base-Emitter Voltage ($I_C=5.0\text{mAdc}$, $V_{CE}=5.0\text{Vdc}$)	0.45	0.75	Vdc

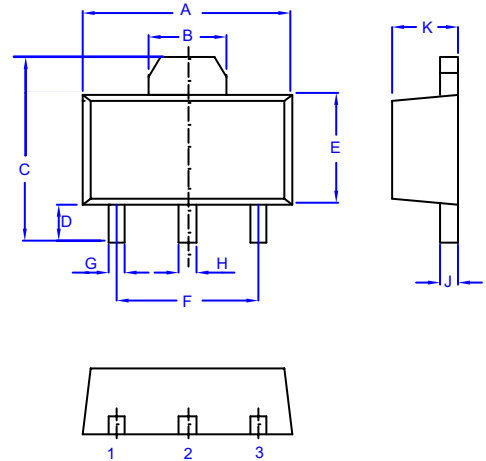
SMALL-SIGNAL CHARACTERISTICS

f_T	Transistor Frequency ($I_C=200\text{mAdc}$, $V_{CE}=5.0\text{Vdc}$)	20		MHz
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CLASSIFICATION OF h_{FE}

Rank	O	Y
Range	100-200	160-320

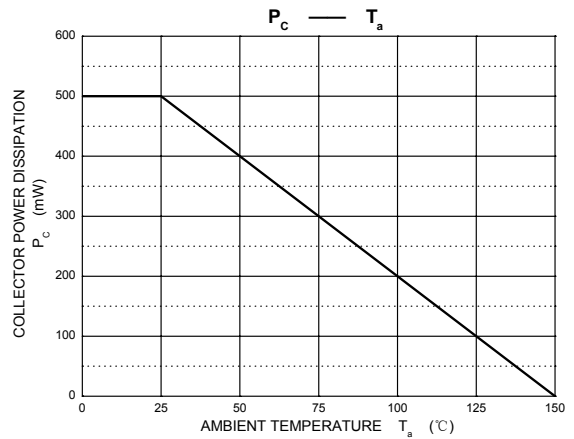
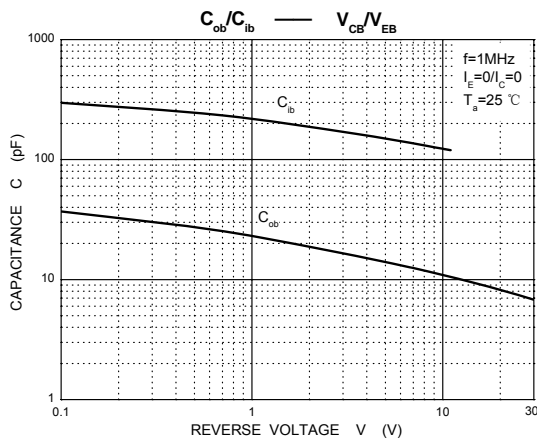
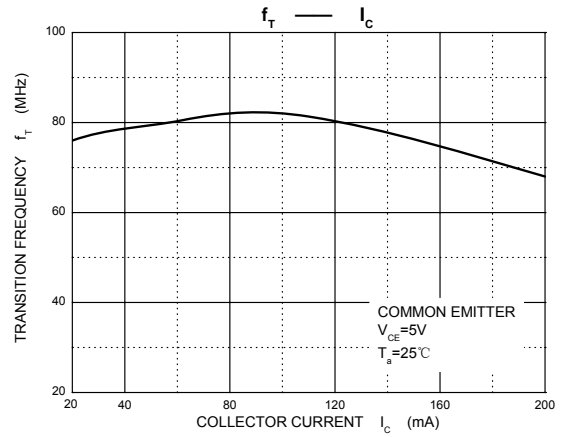
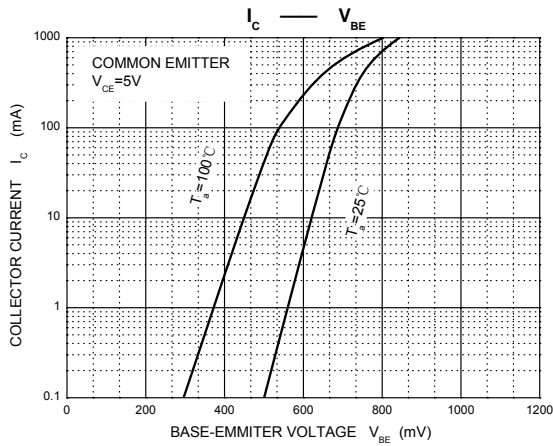
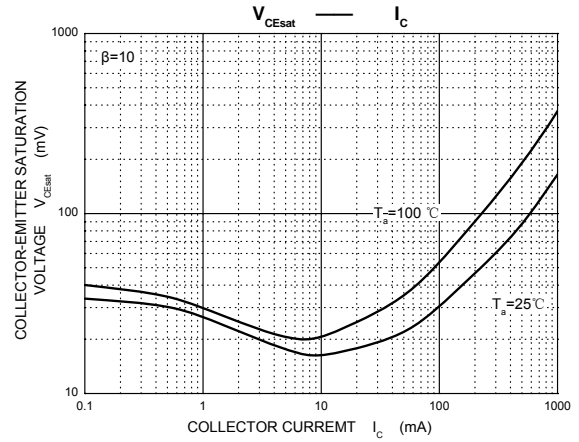
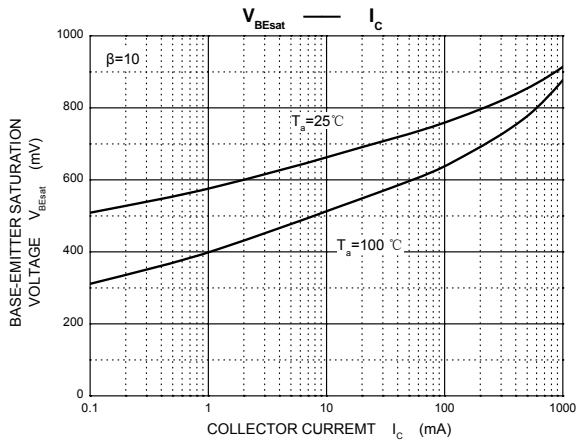
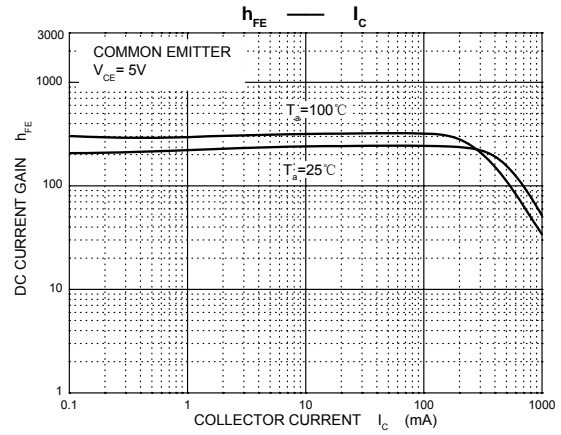
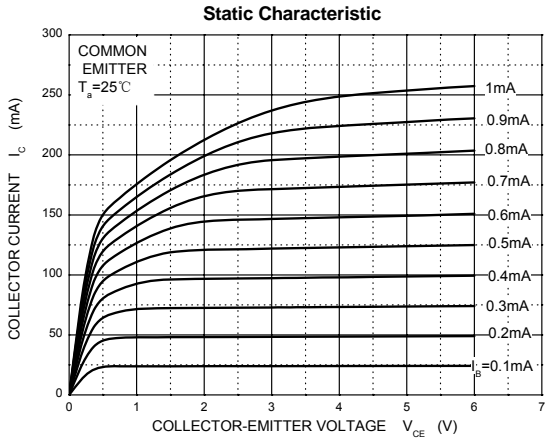
SOT-89



1. Base
2. Collector
3. Emitter

DIM	DIMENSIONS				NOTES
	INCHES		MM		
A	.173	.181	4.39	4.60	
B	.061	-----	1.55	-----	REF.
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	

Typical Characteristics





Micro Commercial Components

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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