



Micro Commercial Components

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PXT8050-C
PXT8050-D
PXT8050-D3

NPN Silicon
Plastic-Encapsulate
Transistor

Features

- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking: Y1/8050
- Capable of 0.5Watts($T_{amb}=25^{\circ}C$) of Power Dissipation.
- Collector-current 1.5A
- Collector-base Voltage 40V
- Operating and storage junction temperature range: $-55^{\circ}C$ to $+150^{\circ}C$

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
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OFF CHARACTERISTICS

$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_c=100\mu A_{dc}, I_E=0$)	40	---	Vdc
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ($I_c=0.1mA_{dc}, I_B=0$)	25	---	Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ($I_E=100\mu A_{dc}, I_C=0$)	5.0	---	Vdc
I_{CBO}	Collector Cutoff Current ($V_{CB}=40V_{dc}, I_E=0$)	---	0.1	μA_{dc}
I_{CEO}	Collector Cutoff Current ($V_{CE}=20V_{dc}, I_B=0$)	---	0.1	μA_{dc}
I_{EBO}	Emitter Cutoff Current ($V_{EB}=5.0V_{dc}, I_C=0$)	---	0.1	μA_{dc}

ON CHARACTERISTICS

$h_{FE(1)}$	DC Current Gain ($I_c=100mA_{dc}, V_{CE}=1.0V_{dc}$)	120	400	---
$h_{FE(2)}$	DC Current Gain ($I_c=800mA_{dc}, V_{CE}=1.0V_{dc}$)	40	---	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_c=800mA_{dc}, I_B=80mA_{dc}$)	---	0.5	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage ($I_c=800mA_{dc}, I_B=80mA_{dc}$)	---	1.2	Vdc
V_{BEF}	Base- Emitter Positive Favor Voltage ($I_B=1.0A_{dc}$)	---	1.55	Vdc

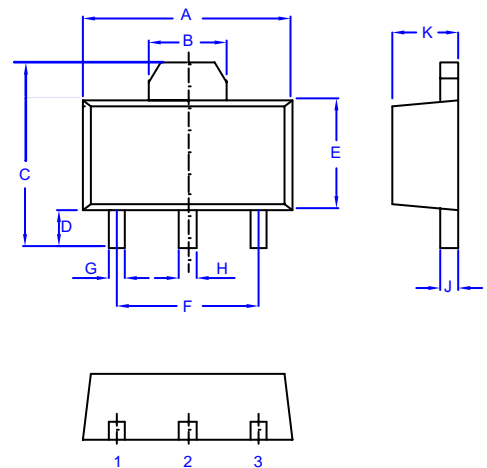
SMALL-SIGNAL CHARACTERISTICS

f_T	Transistor Frequency ($I_c=50mA_{dc}, V_{CE}=10V_{dc}$)	100	---	MHz
C_{cb}	Output Capacitance ($I_E=0, V_{CB}=10V_{dc}, f=1MHz$)	---	15	pF

CLASSIFICATION OF $h_{FE(1)}$

Rank	C	D	D3
Range	120-200	160-300	300-400

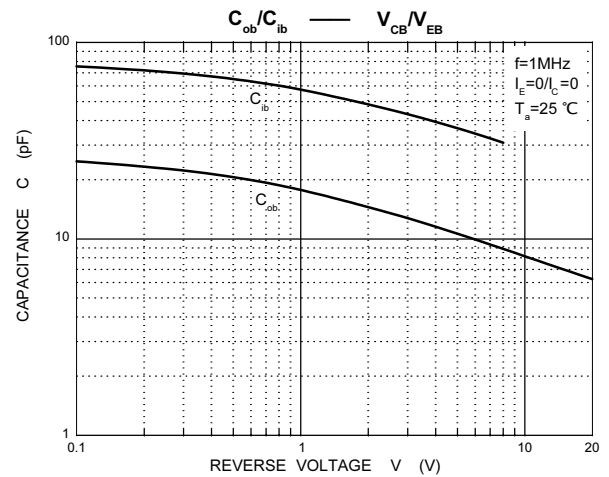
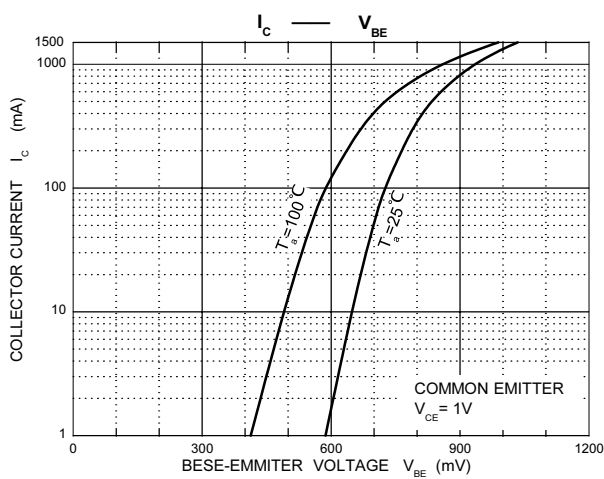
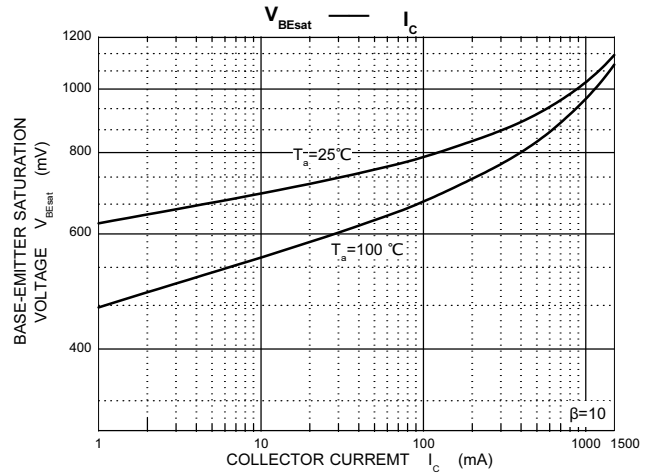
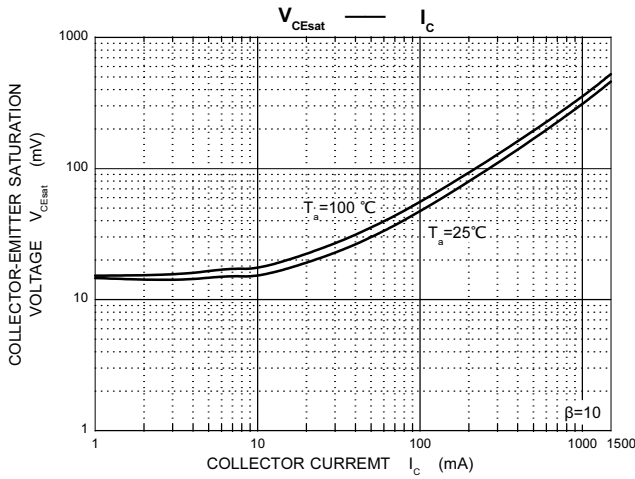
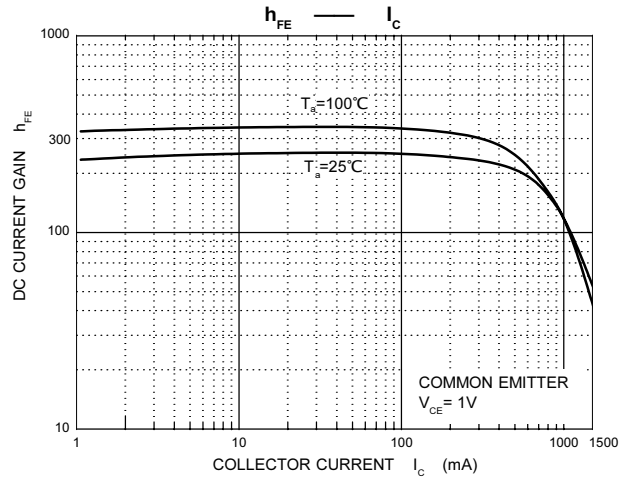
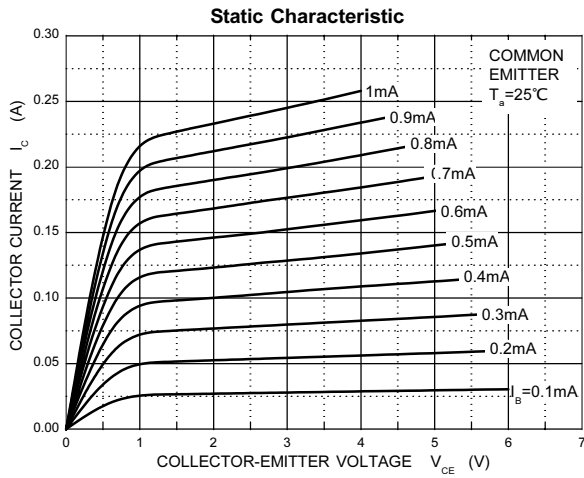
SOT-89



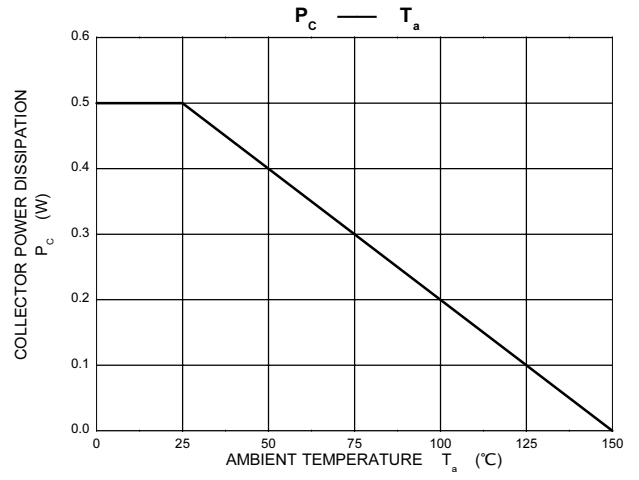
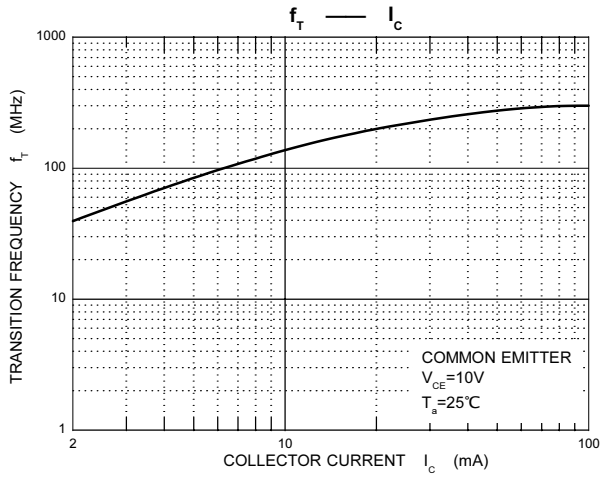
1.BASE
2.COLLECTOR
3.EMITTER

DIM	DIMENSINS				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



Typical Characteristics





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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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