



Micro Commercial Components

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
- Capable of 0.5Watts(Tamb=25°C) of Power Dissipation.
- Collector-current 1.5A
- Collector-base Voltage 40V
- Operating and storage junction temperature range: -55°C to +150°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 ( $I_C=100\mu A, I_E=0$ )	40	---	Vdc
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ( $I_C=0.1mA, I_B=0$ )	25	---	Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ( $I_E=100\mu A, I_C=0$ )	5.0	---	Vdc
$I_{CBO}$	Collector Cutoff Current ( $V_{CB}=40Vdc, I_E=0$ )	---	0.1	$\mu A$
$I_{CEO}$	Collector Cutoff Current ( $V_{CE}=20Vdc, I_B=0$ )	---	0.1	$\mu A$
$I_{EBO}$	Emitter Cutoff Current ( $V_{EB}=5.0Vdc, I_C=0$ )	---	0.1	$\mu A$

**ON CHARACTERISTICS**

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

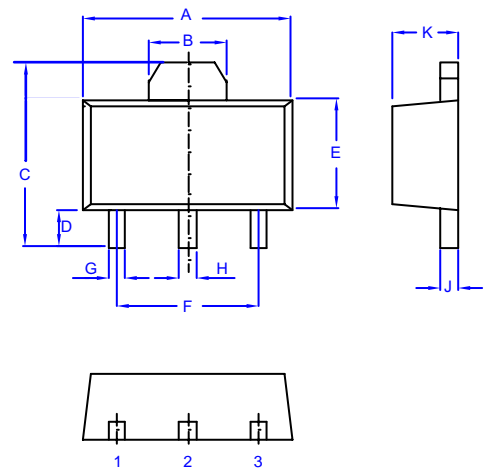
**SMALL-SIGNAL CHARACTERISTICS**

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

**CLASSIFICATION OF  $h_{FE(1)}$**

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

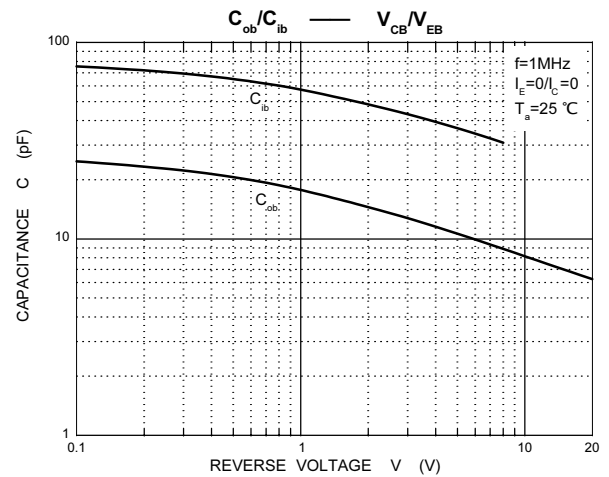
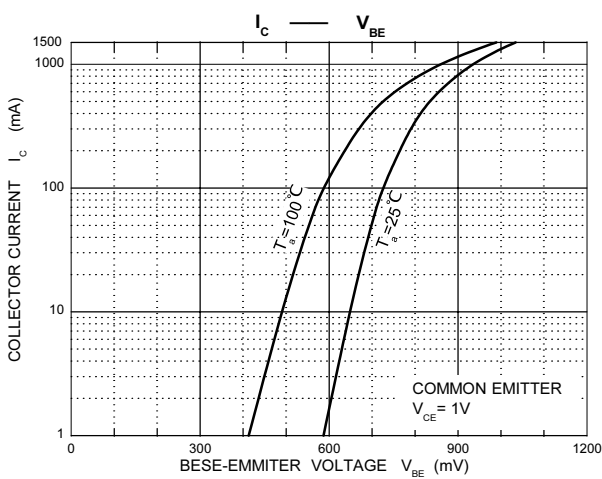
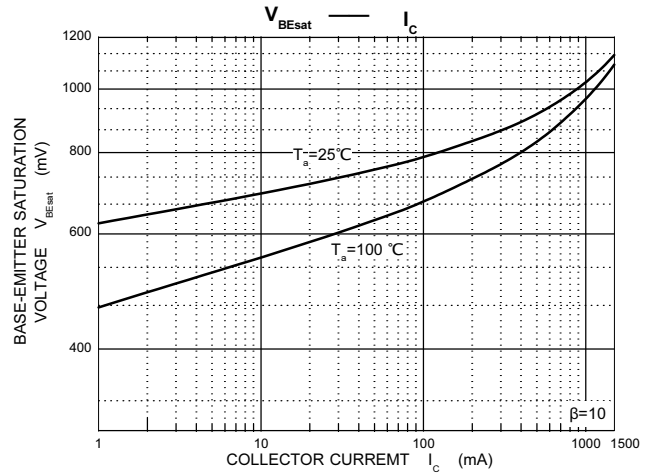
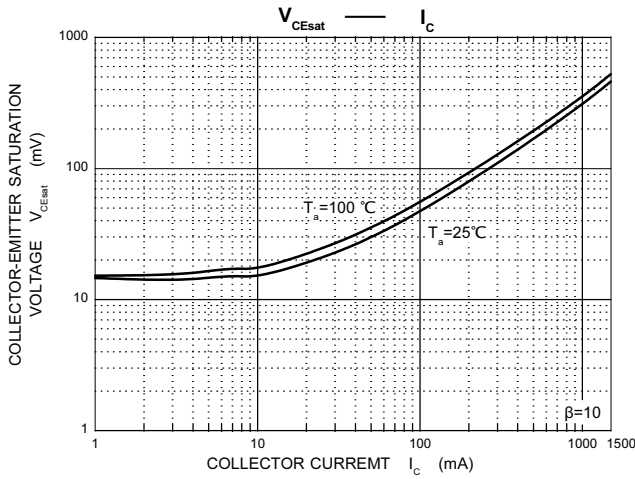
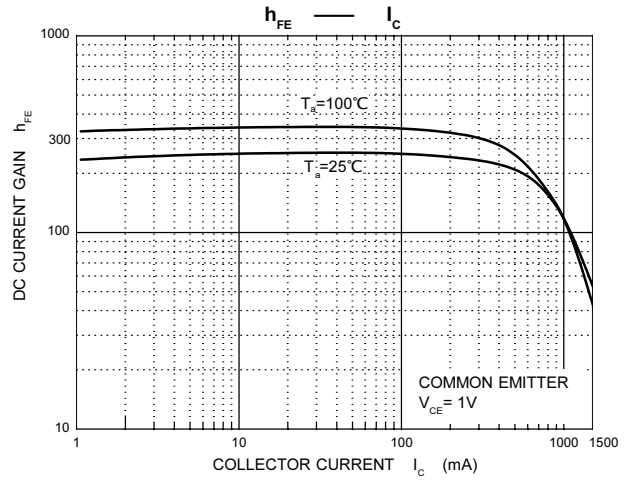
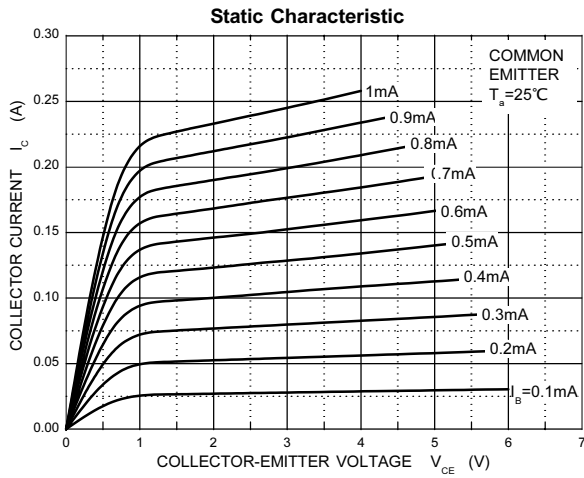
**SOT-89**



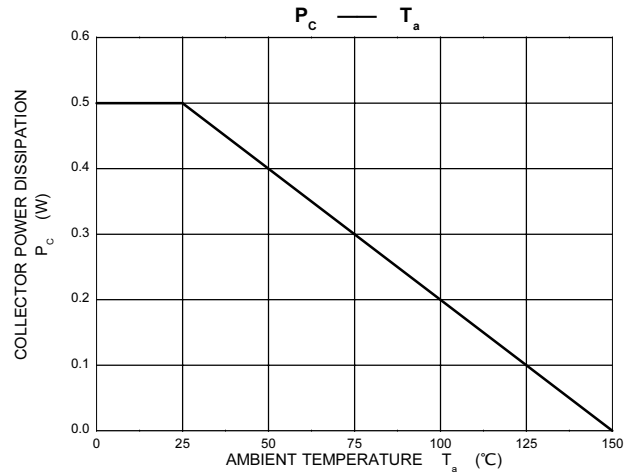
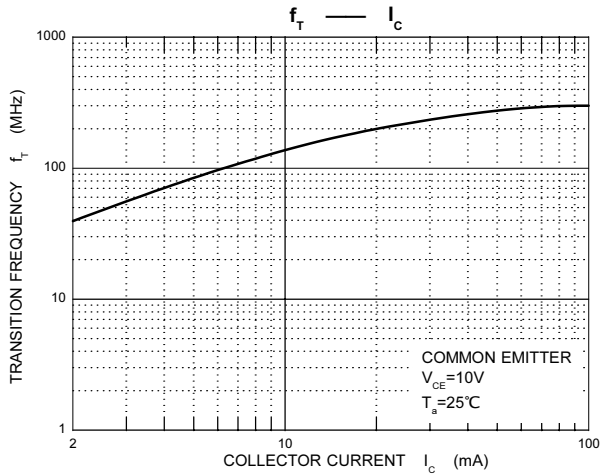
- 1.BASE
- 2.COLLECTOR
- 3.EMITTER

DIM	DIMENSINS				NOTES
	INCHES		MM		
	MIN	MAX	MIN	MAX	
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



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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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