



JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

SOT-89-3L Plastic-Encapsulate Transistors

PXT8050 TRANSISTOR (NPN)

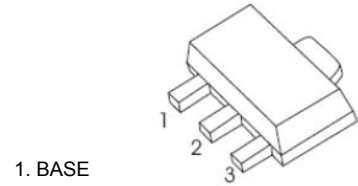
SOT-89-3L

FEATURES

- Compliment to PXT8550

MARKING: Y1

MAXIMUM RATINGS (T_a=25°C unless otherwise noted)



1. BASE
2. COLLECTOR
3. EMITTER

Symbol	Parameter	Value	Unit
V _{CB0}	Collector-Base Voltage	40	V
V _{CEO}	Collector-Emitter Voltage	25	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current -Continuous	1.5	A
P _C	Collector Power dissipation	0.5	W
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55~150	°C

ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

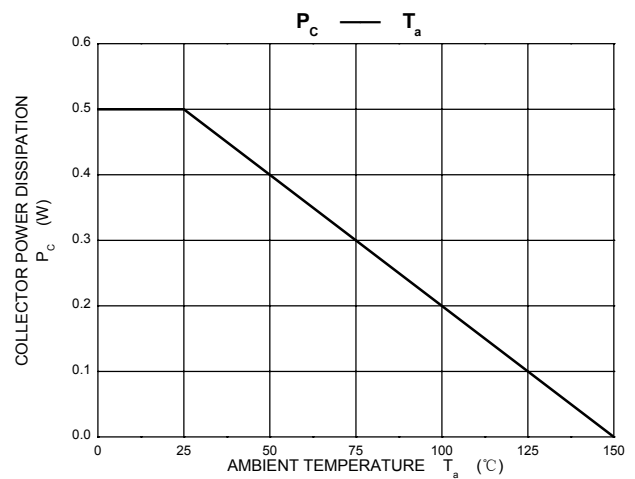
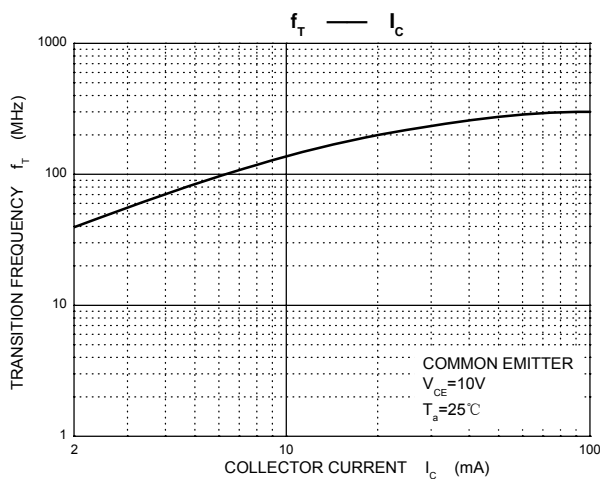
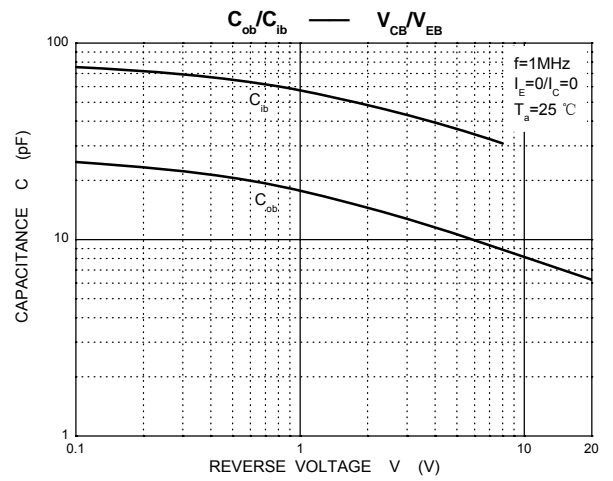
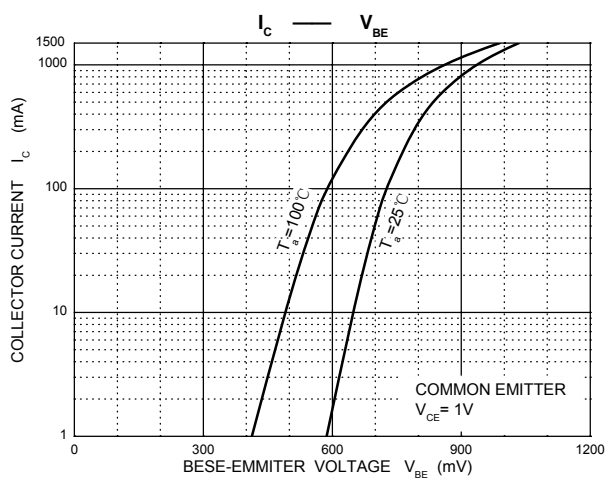
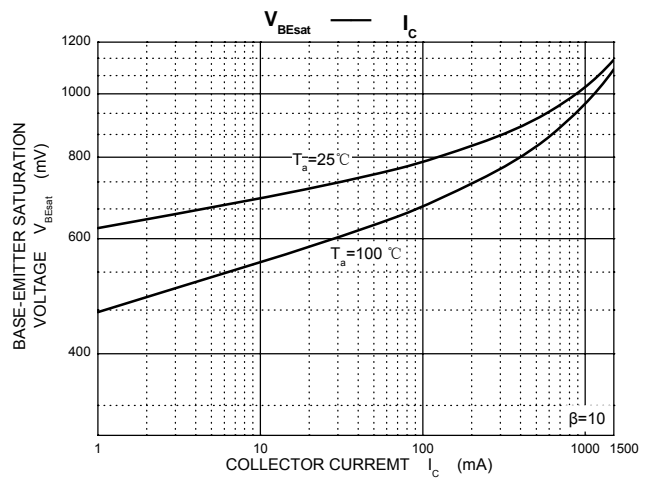
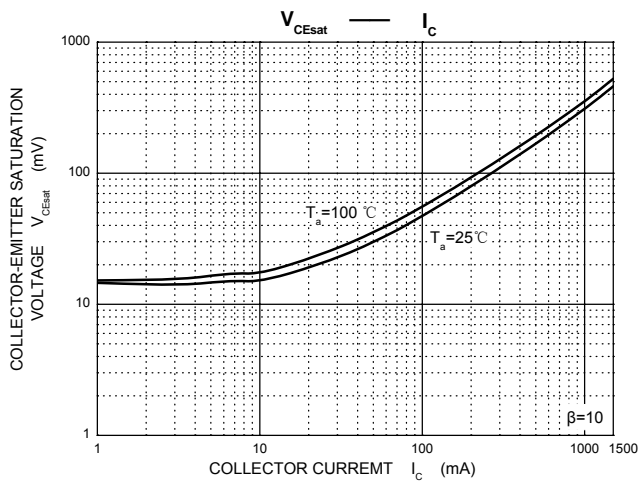
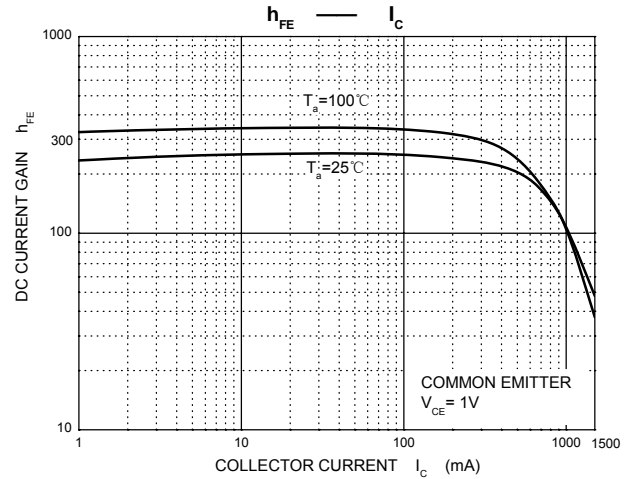
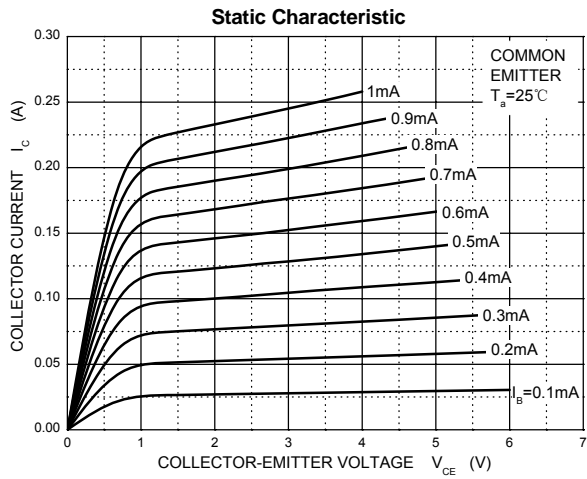
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =100μA, I _E =0	40			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =0.1mA, I _B =0	25			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =100μA, I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =40V, I _E =0			0.1	μA
Emitter cut-off current	I _{CEO}	V _{CE} =20V, I _E =0			0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =5V, I _C =0			0.1	μA
DC current gain	h _{FE(1)}	V _{CE} =1V, I _C =100mA	85		400	
	h _{FE(2)}	V _{CE} =1V, I _C =800mA	40			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =800mA, I _B =80mA			0.5	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =800mA, I _B =80mA			1.2	V
Base-emitter voltage	V _{BE}	V _{CE} =1V, I _C =10mA			1	V
Base-emitter positive favor voltage	V _{BEF}	I _B =1A			1.55	V
Transition frequency	f _T	V _{CE} =10V, I _C =50mA, f=30MHz	100			MHz
output capacitance	C _{ob}	V _{CB} =10V, I _E =0, f=1MHz			15	pF

CLASSIFICATION OF h_{FE(1)}

Rank	B	C	D	D3
Range	85-160	120-200	160-300	300-400

Typical Characteristics

PXT8050



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