



TRANSISTOR (NPN)

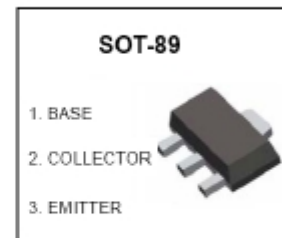
FEATURES

- Compliment to PXT8550

MARKING: Y1

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

Symbol	Parameter	Value	Units
V _{CB0}	Collector-Base Voltage	40	V
V _{CE0}	Collector-Emitter Voltage	25	V
V _{EB0}	Emitter-Base Voltage	6	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_{amb}=25°C unless otherwise specified)

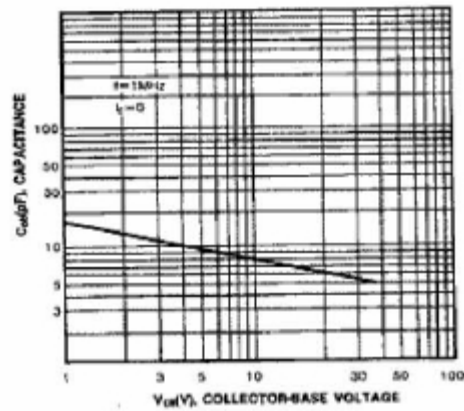
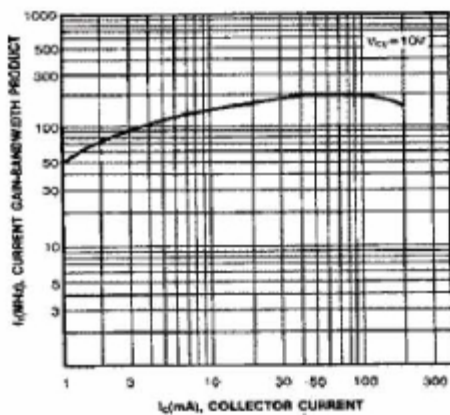
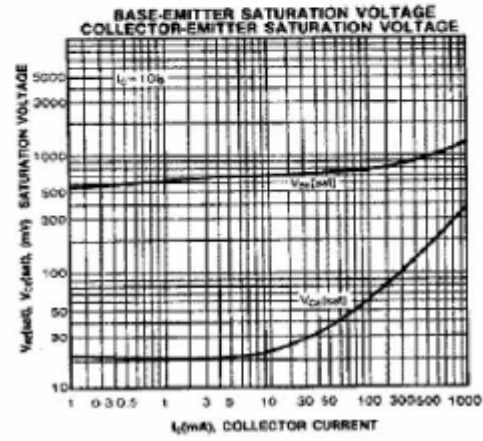
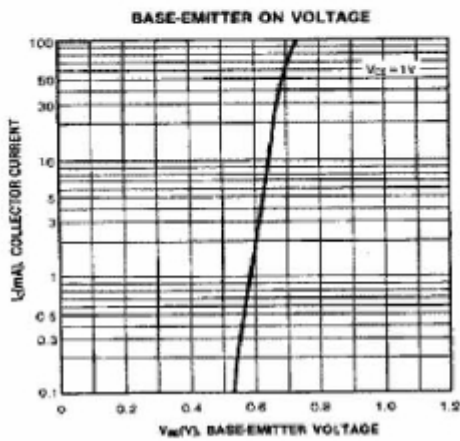
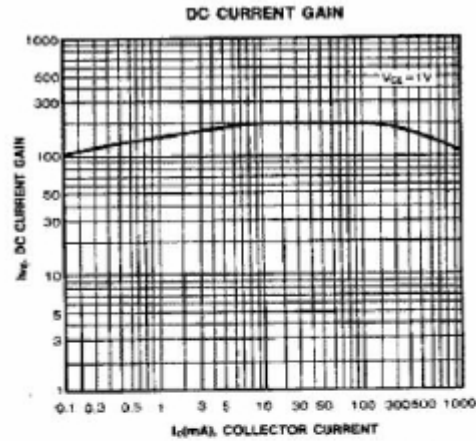
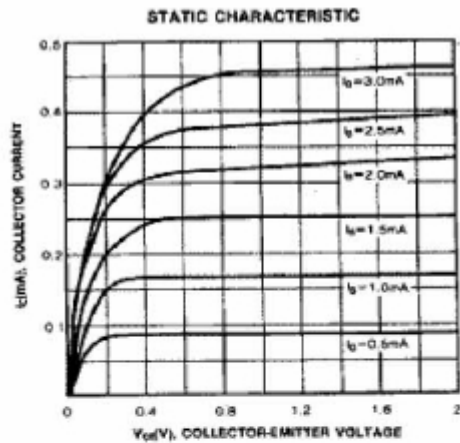
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =100uA, I _E =0	40			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =0.1mA, I _B =0	25			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =100uA, I _C =0	5			V
Collector cut-off current	I _{CB0}	V _{CB} =40V, I _E =0			0.1	μA
Emitter cut-off current	I _{CE0}	V _{CE} =20V, I _E =0			0.1	μA
Emitter cut-off current	I _{EB0}	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



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