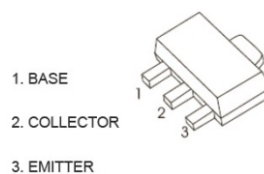


FEATURES

- Epoxy meets UL-94 V-0 flammability rating
- Power Dissipation of 500mW
- High Stability and High Reliability

SOT-89



MECHANICAL DATA

- Case: SOT-89
- Terminals: Plated solderable per MIL-STD-750, method 2026
- Mounting Position: Any
- Marking: Y2

MAXIMUM RATINGS($T_A=25^{\circ}\text{C}$ Unless otherwise specified)

Item	Symbol	Unit	Value
Collector-Emitter Voltage	V_{CE0}	V	-25
Collector-Base Voltage	V_{CB0}	V	-40
Emitter-Base Voltage	V_{EB0}	V	-5.0
Collector Current, Continuous	I_C	mA	-1500
Power Dissipation	P_D	mW	500
Operation Junction Temperature	T_J	$^{\circ}\text{C}$	-55 to +150
Storage Temperature	T_{STG}	$^{\circ}\text{C}$	-55 to +150
Thermal resistance From junction to ambient	$R_{\theta JA}$	$^{\circ}\text{C}/\text{W}$	250

PXT8550

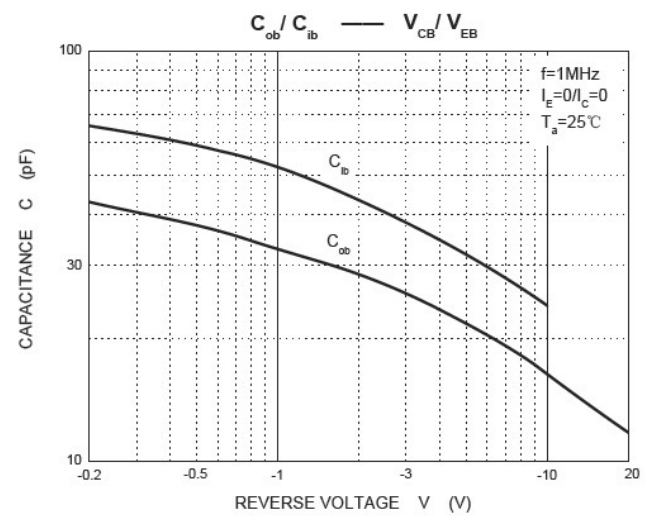
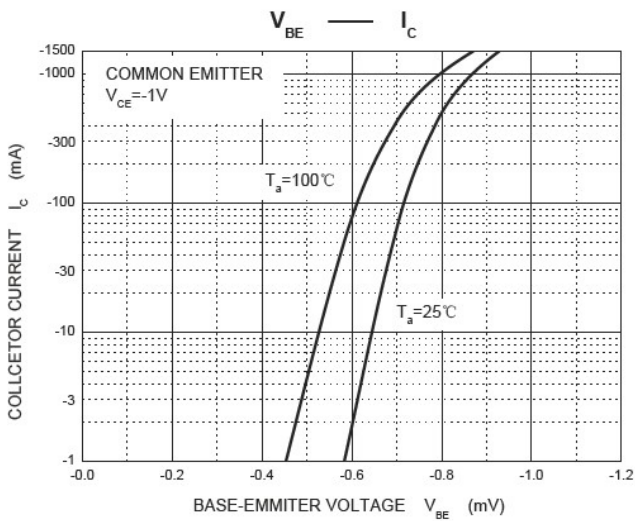
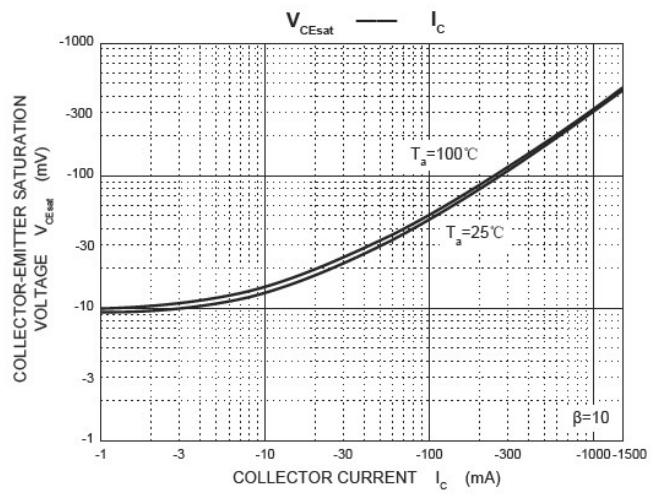
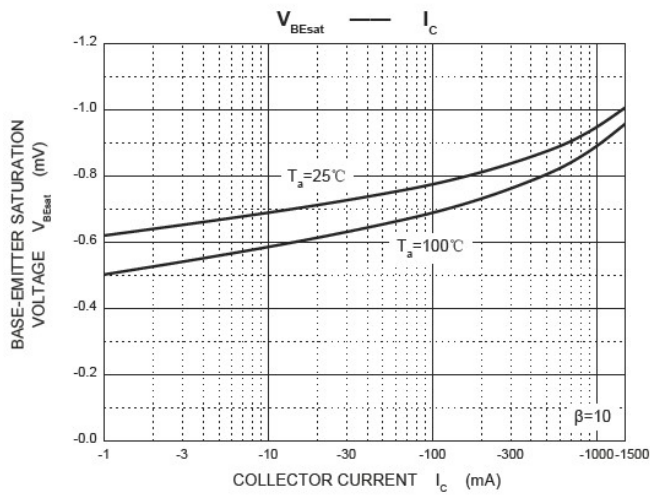
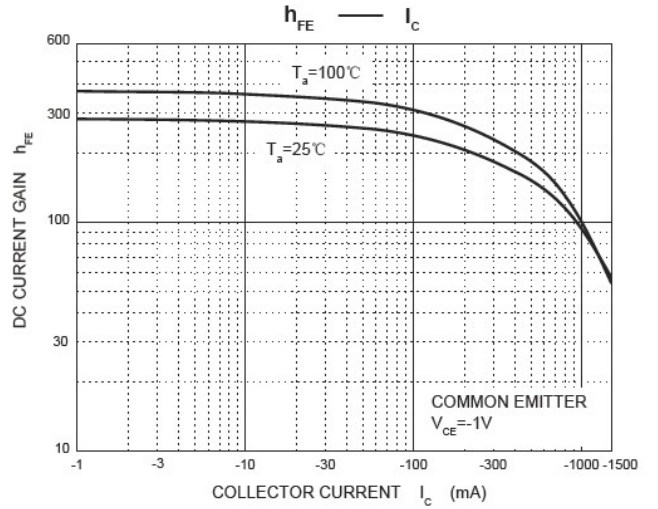
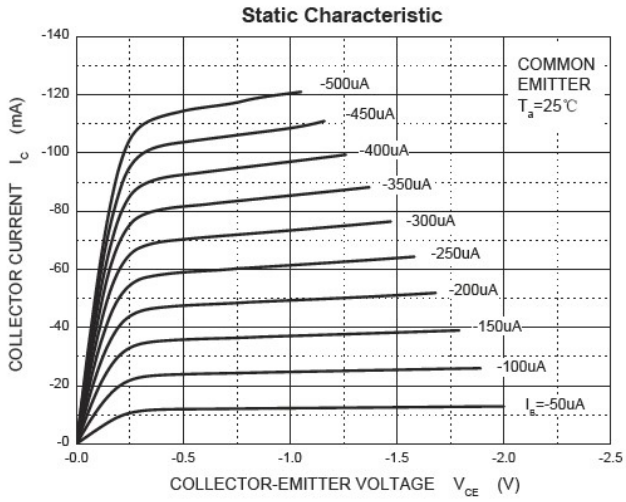
ELECTRICAL CHARACTERISTICS(T_A=25°C Unless otherwise specified)

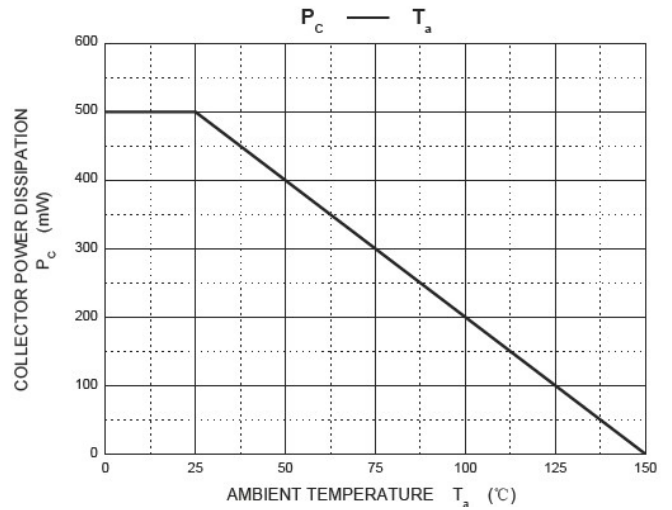
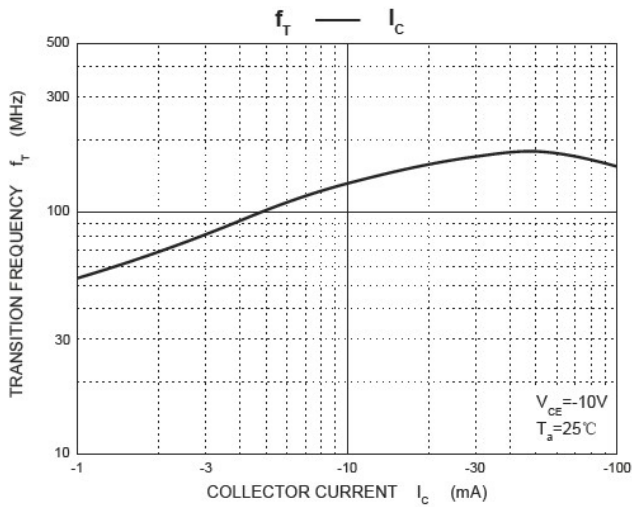
Item	Symbol	Unit	Conditions	Min	Max
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	Vdc	I _C =-0.1mA, I _B =0	-25	---
Collector-Base Breakdown Voltage	V _{(BR)CBO}	Vdc	I _C =-100μA, I _E =0	-40	---
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	Vdc	I _E =-100μA, I _C =0	-5.0	---
Collector cut-off Current	I _{CBO}	nA	V _{CB} =-40V, I _E =0	---	-100
Collector cut-off Current	I _{CEO}	nA	V _{CE} =-20V, I _B =0	---	-100
Emitter cut-off Current	I _{EBO}	nA	V _{EB} =-5V, I _C =0	---	-100
DC Current Gain	h _{FE}		I _C =5mA, V _{CE} =2.0V	---	---
			I _C =-100mA, V _{CE} =-1V	85	400
			I _C =-800mA, V _{CE} =-1V	40	---
Collector-Emitter Saturation Voltage	V _{CE(set)}	Vdc	I _C =10mA, I _B =1.0mA	---	---
			I _C =-800mA, I _B =-80mA	---	-0.5
Base-Emitter Saturation Voltage	V _{BE}	Vdc	I _C =-800mA, I _B =-80mA	---	-1.20
			V _{CE} =-1V, I _C =-10mA	---	-1.0
Output Capacitance	C _{obo}	pF	V _{CB} =-10V, f=1.0MHZ, I _E =0	---	20
Input Capacitance	C _{ibo}	pF	V _{EB} =0.5V, f=1.0MHZ, I _C =0	---	---
Current Gain-Bandwidth Product	f _T	MHZ	I _C =-50mA, V _{CE} =-10V f=30MHZ	100	---
Noise Figure	NF	dB	V _{CE} =5.0V, f=1.0kHz, I _C =100μA, R _S =1.0K	---	---

CLASSIFICATION OF h_{FE(1)}

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

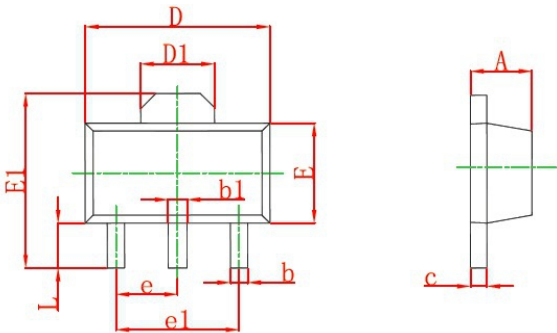
Characteristics(Typical)





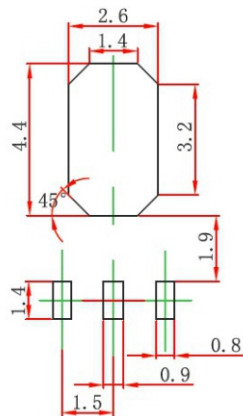
Outline Dimensions

SOT-89



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.400	1.600	0.055	0.063
b	0.320	0.520	0.013	0.020
b1	0.400	0.580	0.016	0.023
c	0.350	0.440	0.014	0.017
D	4.400	4.600	0.173	0.181
D1	1.550 REF.		0.061 REF.	
E	2.300	2.600	0.091	0.102
E1	3.940	4.250	0.155	0.167
e	1.500 TYP.		0.060 TYP.	
e1	3.000 TYP.		0.118 TYP.	
L	0.900	1.200	0.035	0.047

Suggested pad layout



Dimensions in millimeters

Friendship Reminder

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