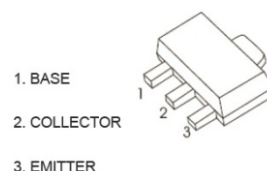


FEATURES

- Epoxy meets UL-94 V-0 flammability rating
- Complementary to PXT8550
- Power Dissipation of 500mW
- High Stability and High Reliability

SOT-89-3L



MECHANICAL DATA

- Case: SOT-89-3L
- Terminals: Plated solderable per MIL-STD-750, method 2026
- Mounting Position: Any
- Marking: Y1

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

Item	Symbol	Unit	Value
Collector-Emitter Voltage	V_{CEO}	V	25
Collector-Base Voltage	V_{CBO}	V	40
Emitter-Base Voltage	V_{EBO}	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

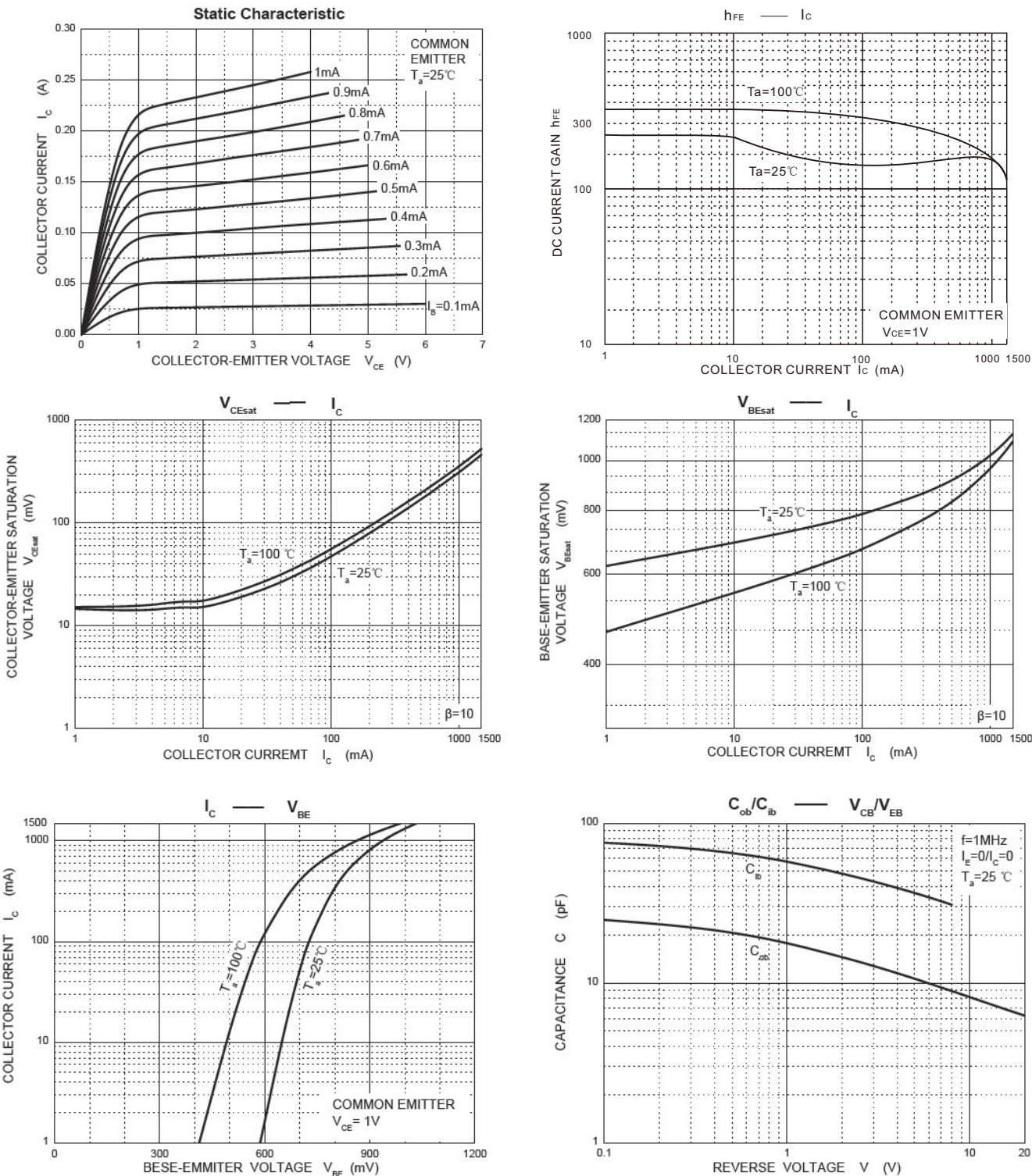
ELECTRICAL CHARACTERISTICS($T_A=25^{\circ}\text{C}$ Unless otherwise specified)

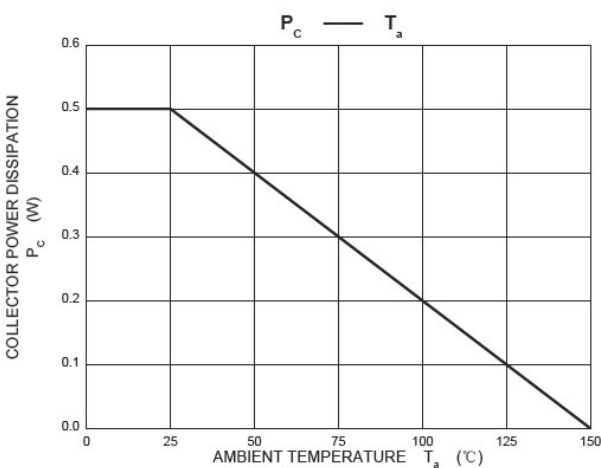
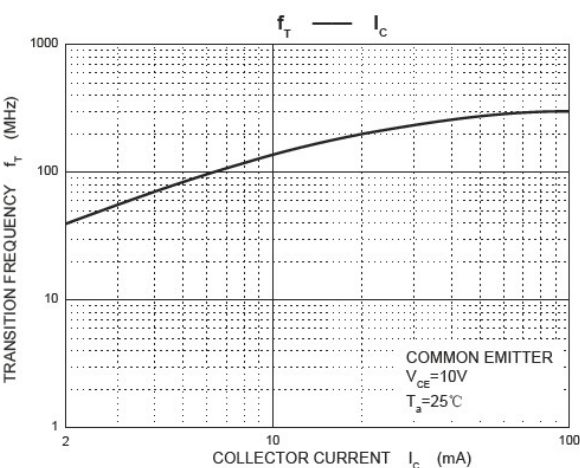
Item	Symbol	Unit	Conditions	Min	Max
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	Vdc	$I_C=0.1\text{mA}, I_B=0$	25	---
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	Vdc	$I_C=100\mu\text{A}, I_E=0$	40	---
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	Vdc	$I_E=100\mu\text{A}, I_C=0$	5.0	---
Collector cut-off Current	I_{CBO}	nAdc	$V_{CB}=40\text{Vdc}, I_E=0$	---	100
Collector cut-off Current	I_{CEO}	nAdc	$V_{CE}=20\text{Vdc}, I_B=0$	---	100
Emitter cut-off Current	I_{EBO}	nAdc	$V_{EB}=5\text{Vdc}, I_C=0$	---	100
DC Current Gain	$h_{FE(1)}$		$I_C=100\text{mA}, V_{CE}=1\text{Vdc}$	85	400
	$h_{FE(2)}$		$I_C=800\text{mA}, V_{CE}=1\text{Vdc}$	40	---
Collector-Emitter Saturation Voltage	$V_{CE(set)}$	Vdc	$I_C=800\text{mA}, I_B=80\text{mA}$	---	0.5
Base-Emitter Saturation Voltage	V_{BE}	Vdc	$I_C=800\text{mA}, I_B=80\text{mA}$	---	1.20
			$V_{CE}=1\text{Vdc}, I_C=10\text{mA}$	---	1.0
Output Capacitance	C_{obo}	pF	$V_{CB}=10\text{Vdc}, f=1.0\text{MHz}, I_E=0$	---	15
Input Capacitance	C_{ibo}	pF	$V_{EB}=0.5\text{Vdc}, f=1.0\text{MHz}, I_C=0$	---	---
Current Gain-Bandwidth Product	f_T	MHZ	$I_C=50\text{mA}, V_{CE}=10\text{Vdc}$ $f=30\text{MHz}$	100	---
Noise Figure	NF	dB	$V_{CE}=5.0\text{V}, f=1.0\text{kHz}$, $I_C=100\mu\text{A}, R_s=1.0\text{K}$	---	---

CLASSIFICATION OF $h_{FE(1)}$

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

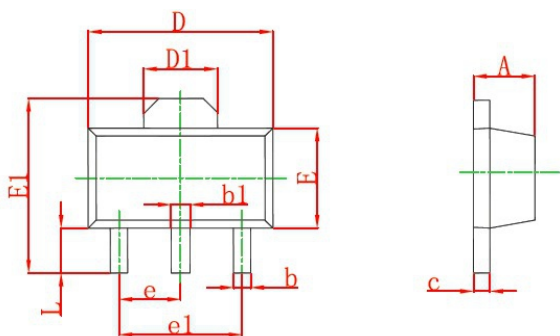
Characteristics(Typical)





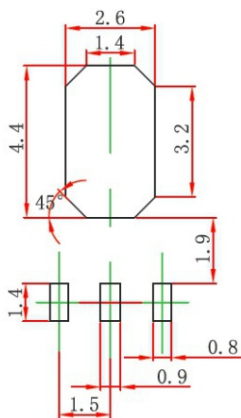
Outline Dimensions

SOT-89-3L



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

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