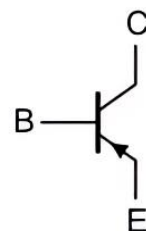


Features

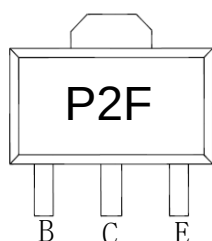
- Switching and Linear Amplification
- High Current and Low Voltage
- Complement to PXT2222A



SOT-89-3L top view



Schematic diagram



Marking and pin assignment



Halogen-Free

Maximum Ratings (Ta=25°C unless otherwise noted)

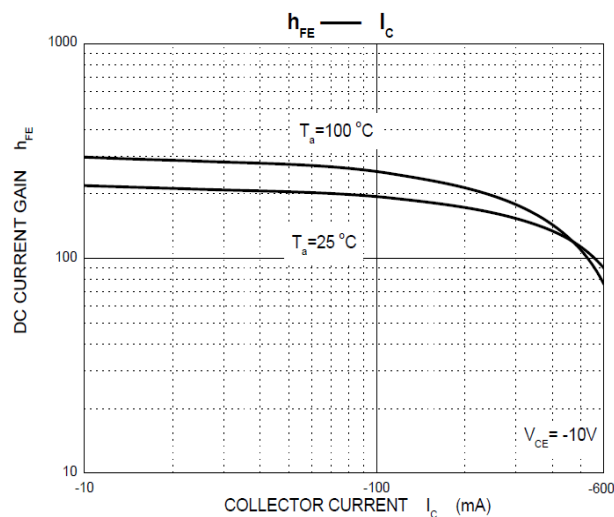
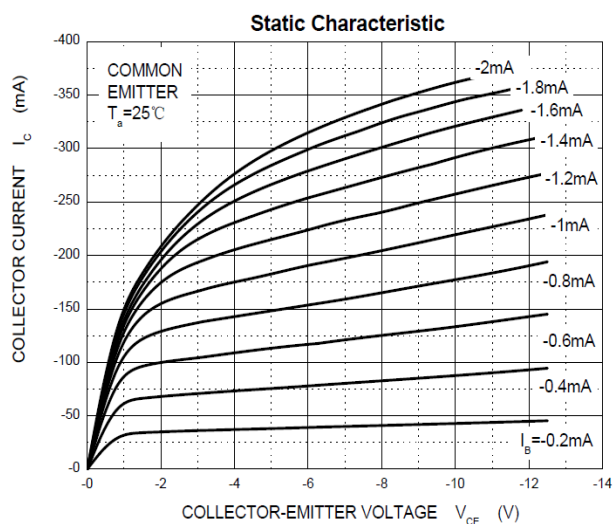
Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	-60	V
V_{CEO}	Collector-Emitter Voltage	-60	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current	-600	mA
P_C	Collector Power Dissipation	500	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	250	°C/W
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

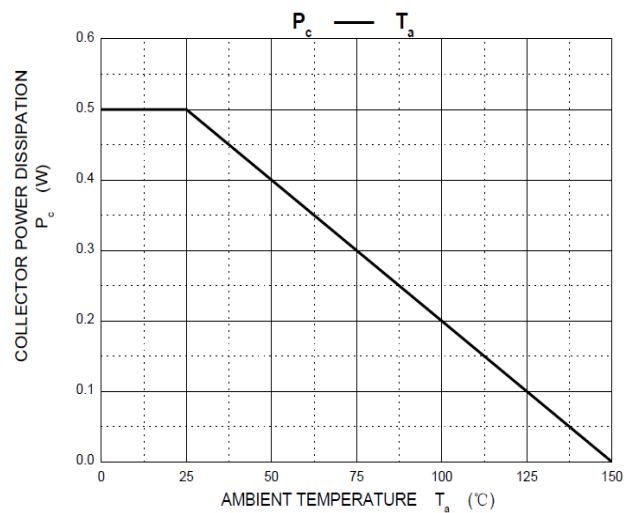
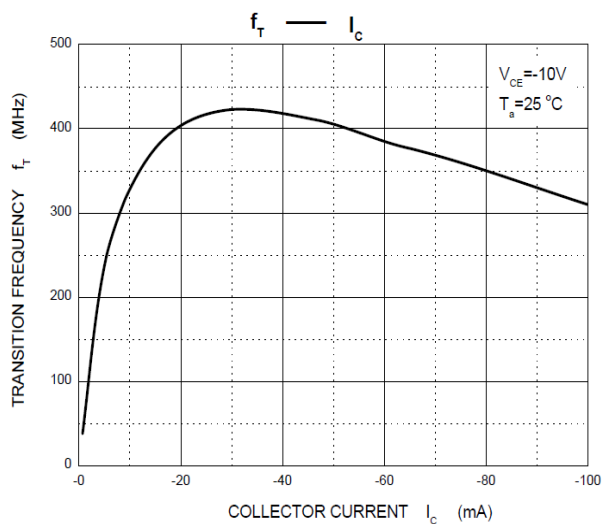
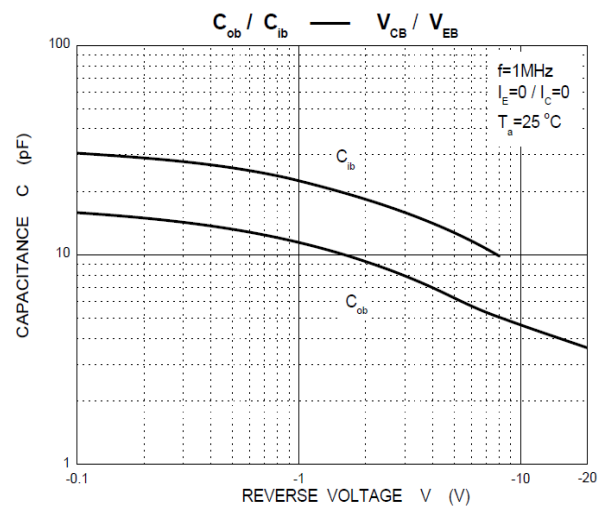
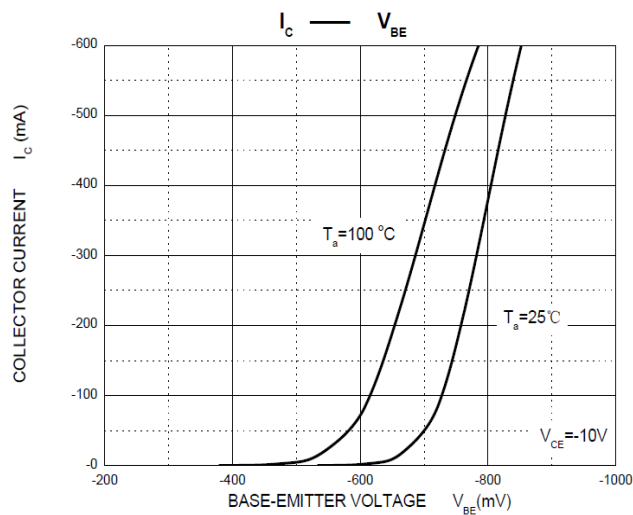
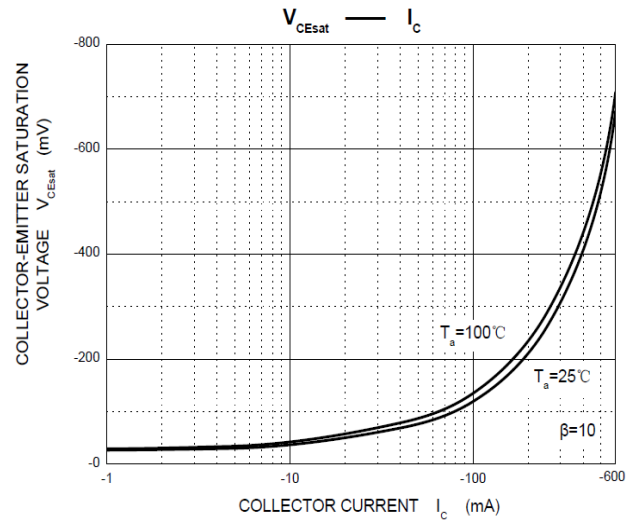
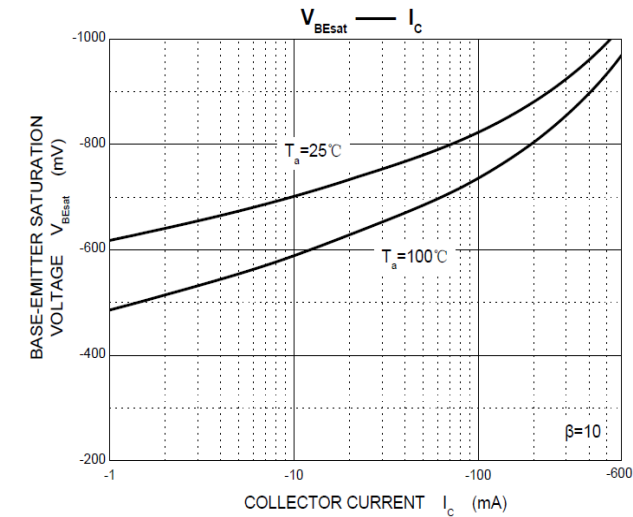
Ordering Information (Example)

Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
PXT2907A	SOT-89-3L	P2F	1,000	10,000	40,000	7"reel

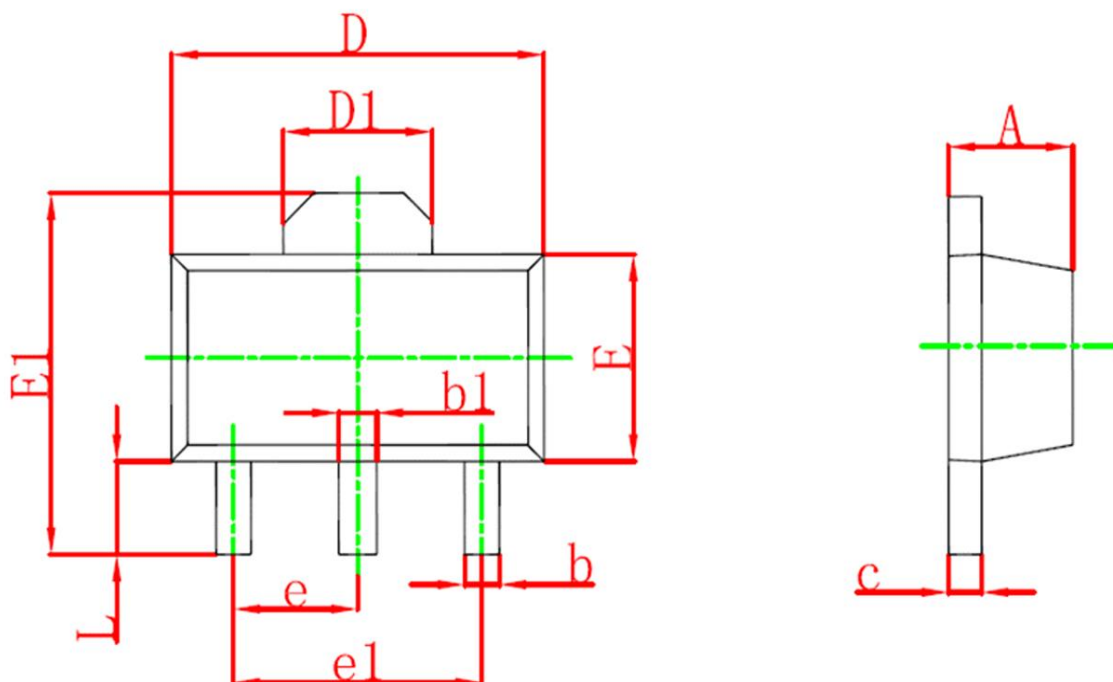
Electrical Characteristics (Ta=25°C unless otherwise specified)

Symbol	Parameter	Condition	Min	Typ	Max	Unit
$V_{(BR)CBO}$	Collector-base breakdown voltage	$I_C=-1mA, I_E=0$	-60	--	--	V
$V_{(BR)CEO}$	Collector-emitter breakdown voltage	$I_C=-10mA, I_B=0$	-60	--	--	V
$V_{(BR)EBO}$	Emitter-base breakdown voltage	$I_E=-1mA, I_C=0$	-5	--	--	V
I_{CBO}	Collector cut-off current	$V_{CB}=-50V, I_E=0$	--	--	-0.01	μA
I_{EBO}	Emitter cut-off current	$V_{EB}=-5V, I_C=0$	--	--	-0.01	μA
H_{FE}	DC current gain	$V_{CE}=-10V, I_C=-0.1mA$	75	--	--	--
		$V_{CE}=-10V, I_C=-1mA$	100	--	--	
		$V_{CE}=-10V, I_C=-10mA$	100	--	--	
		$V_{CE}=-10V, I_C=-150mA$	100	--	300	
		$V_{CE}=-10V, I_C=-500mA$	50	--	--	
$V_{CE(sat)}$	Collector-emitter saturation voltage	$I_C=-500mA, I_B=-50mA$			-1.6	V
		$I_C=-150mA, I_B=-15mA$	--	--	-0.4	V
$V_{BE(sat)}$	Base-emitter saturation voltage	$I_C=-500mA, I_B=-50mA$			-2.6	V
		$I_C=-150mA, I_B=-15mA$	--	--	-1.3	V
t_d	Delay time	$V_{CC}=-30V, I_C=-150mA,$ $I_{B1}=-I_{B2}=-15mA$	--	--	12	ns
t_r	Rise time		--	--	30	ns
t_s	Storage time		--	--	300	ns
t_f	Fall time		--	--	65	ns
f_T	Transition frequency	$V_{CE}=-10V, I_C=-20mA, f=100MHz$	200	--	--	MHz

Typical Characteristics




SOT-89-3L Package information



Symbol	Dimensions in Millimeters(mm)		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