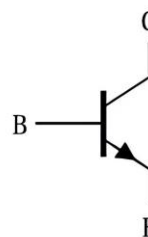


Features

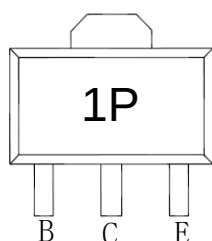
- Epitaxial planar die construction
- Complementary PNP Type available(PXT2907A)



SOT-89-3L top view



Schematic diagram



Marking and pin assignment



Halogen-Free

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

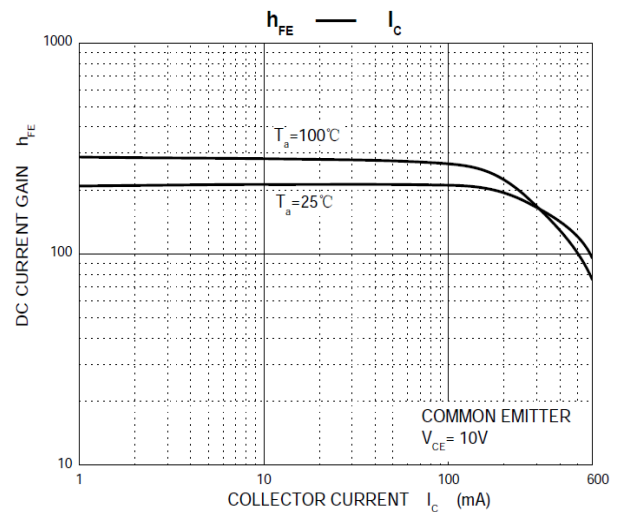
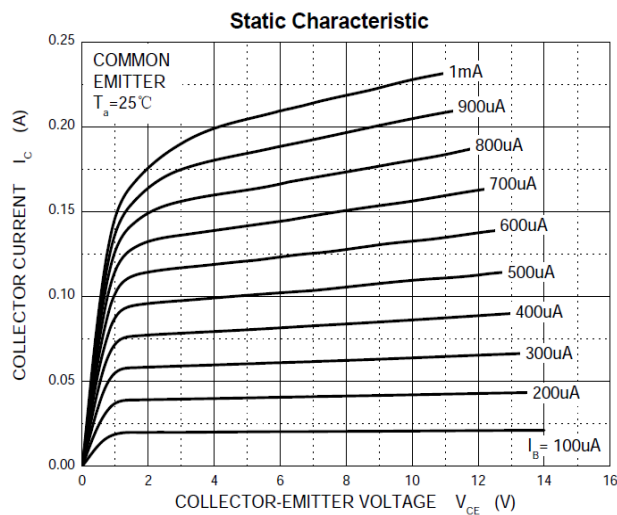
Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	75	V
V_{CEO}	Collector-Emitter Voltage	40	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current	600	mA
P_C	Collector Power Dissipation	0.5	mW
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

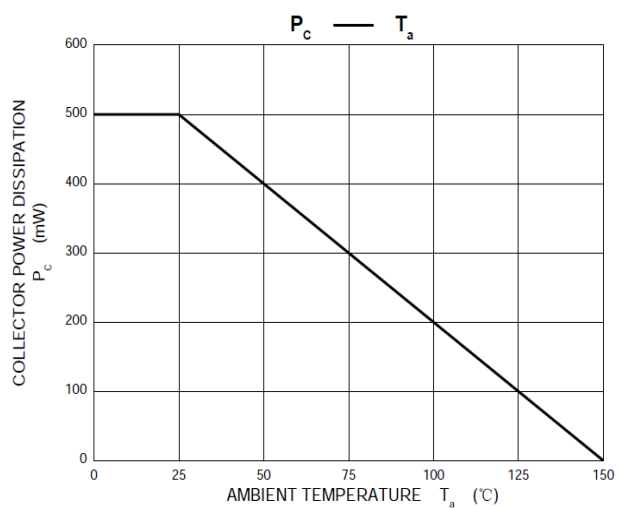
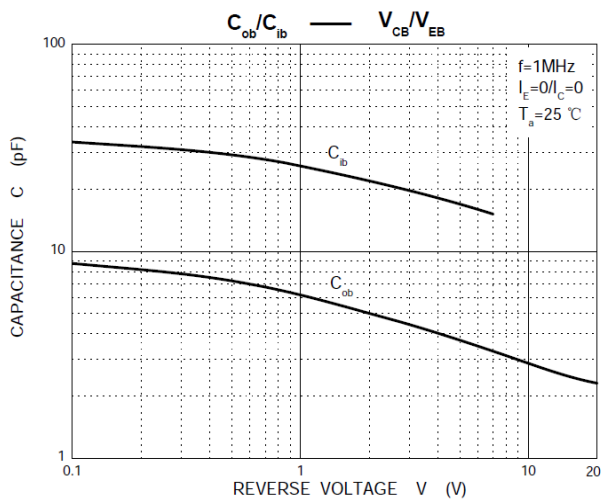
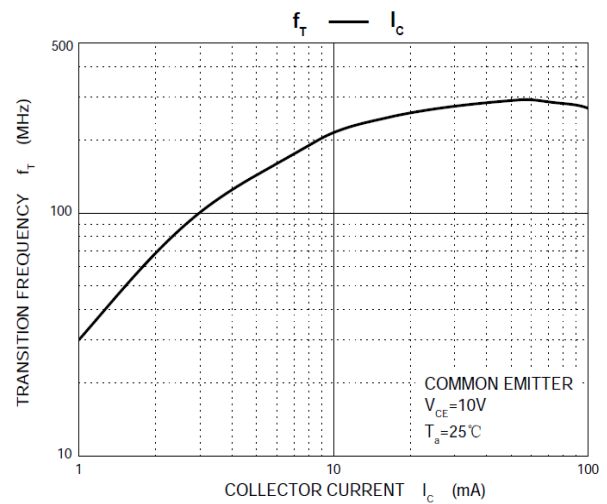
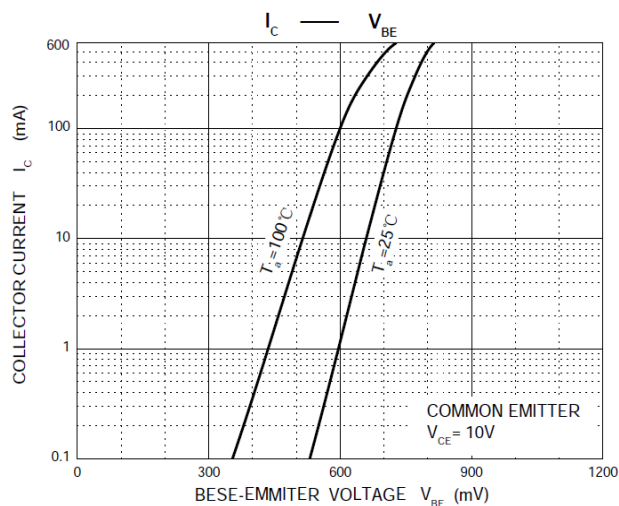
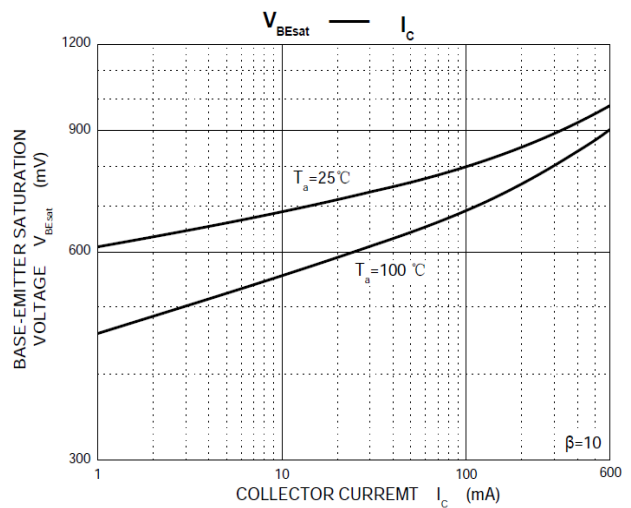
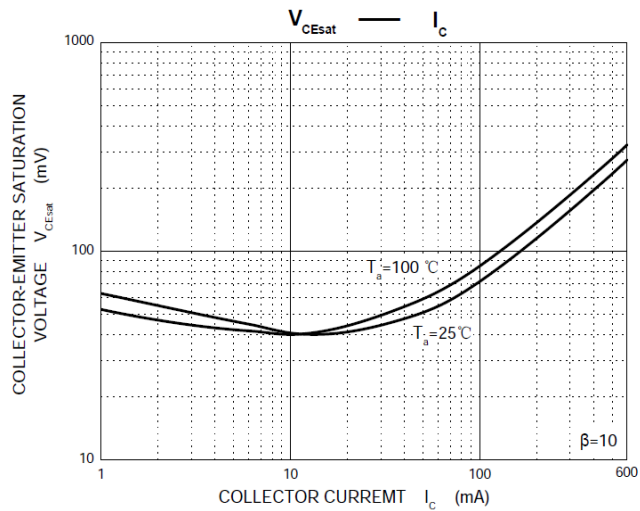
Ordering Information (Example)

Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
PXT2222A	SOT-89-3L	1P	1,000	10,000	40,000	7" reel

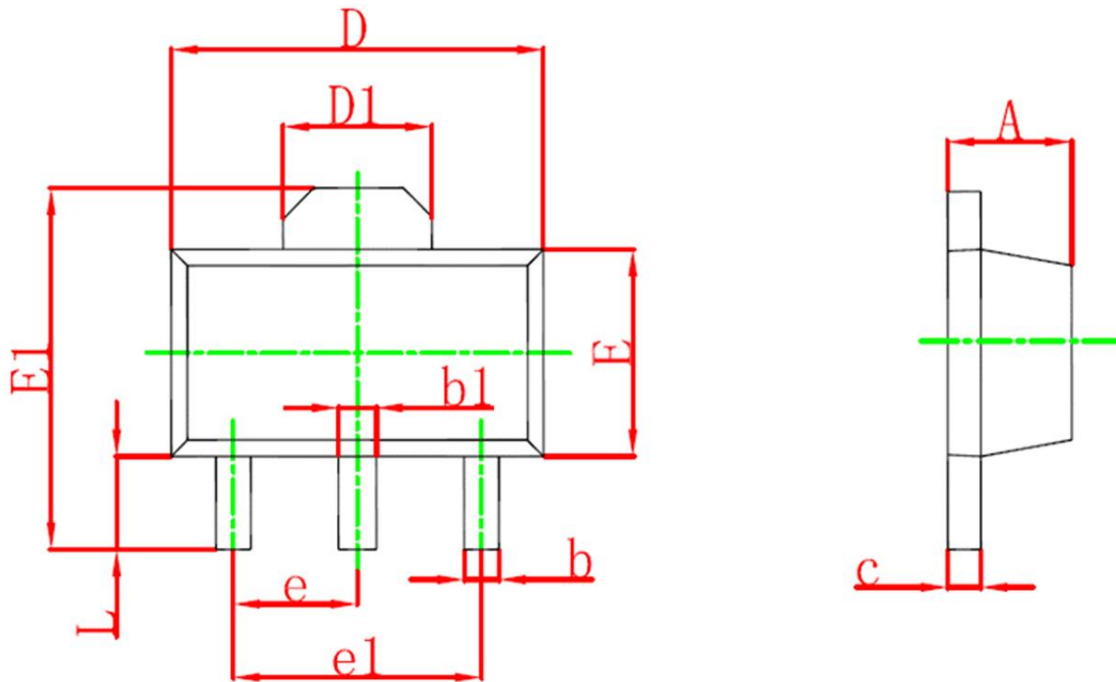
Electrical Characteristics (Ta=25°C unless otherwise specified)

Symbol	Parameter	Condition	Min	Typ	Max	Unit
$V_{(BR)CBO}$	Collector-base breakdown voltage	$I_C=10\mu A, I_E=0$	75	--	--	V
$V_{(BR)CEO}$	Collector-emitter breakdown voltage	$I_C=10mA, I_B=0$	40	--	--	V
$V_{(BR)EBO}$	Emitter-base breakdown voltage	$I_E=10\mu A, I_C=0$	6	--	--	V
I_{CBO}	Collector cut-off current	$V_{CB}=60V, I_E=0$	--	--	0.01	μA
I_{EBO}	Emitter cut-off current	$V_{EB}=5V, I_C=0$	--	--	0.01	μA
$H_{FE(1)}$	DC current gain	$V_{CE}=10V, I_C=0.1mA$	35	--	--	--
$H_{FE(2)}$		$V_{CE}=10V, I_C=1mA$	50	--	--	
$H_{FE(3)}$		$V_{CE}=10V, I_C=10mA$	75	--	--	
$H_{FE(4)}$		$V_{CE}=10V, I_C=150mA$	100	--	300	
$H_{FE(5)}$		$V_{CE}=1V, I_C=150mA$	50	--	--	
$H_{FE(6)}$		$V_{CE}=10V, I_C=500mA$	40	--	--	
$V_{CE(sat)}$	Collector-emitter saturation voltage	$I_C=500mA, I_B=50mA$			1	V
		$I_C=150mA, I_B=15mA$	--	--	0.3	V
$V_{BE(sat)}$	Base-emitter saturation voltage	$I_C=500mA, I_B=50mA$			2	V
		$I_C=150mA, I_B=15mA$	0.6	--	1.2	V
C_{ob}	Collector output capacitance	$V_{CB}=10V, I_E=0, f=1MHz$	--	--	8	pF
t_d	Delay time	$V_{CC}=30V, I_C=150mA$	--	--	10	ns
t_r	Rise time	$V_{BE(off)}=0.5V, I_{B1}=15mA$	--	--	25	ns
t_s	Storage time	$V_{CC}=30V, I_C=150mA$	--	--	225	ns
t_f	Fall time	$I_{B1}=I_{B2}=15mA$	--	--	60	ns
f_T	Transition frequency	$V_{CE}=10V, I_C=20mA, f=100MHz$	300	--	--	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