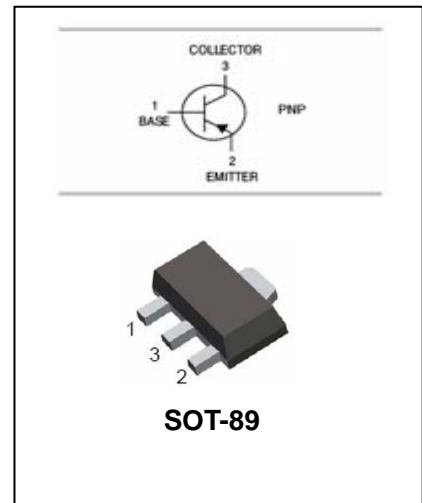


PNP General Purpose Amplifier

PXT2907A

FEATURES

- Epitaxial planar die construction.
- Complementary NPN type available PXT2222A.
- Ideal for medium power amplification and switching.



APPLICATIONS

- This device is designed as a general purpose amplifier and switching.

ORDERING INFORMATION

Type No.	Marking	Package Code
PXT2907A	p2F	SOT-89

MAXIMUM RATING @ Ta=25°C unless otherwise specified

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 -Continuous	-600	mA
P_D	Total Device Dissipation	500	mW
T_j, T_{stg}	Junction and Storage Temperature	-55to+150	°C

PNP General Purpose Amplifier

PXT2907A

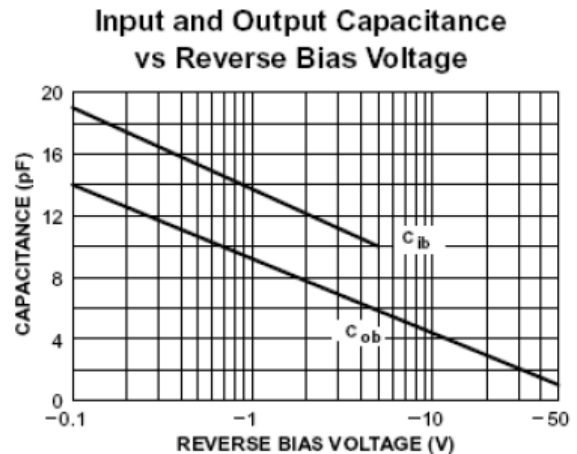
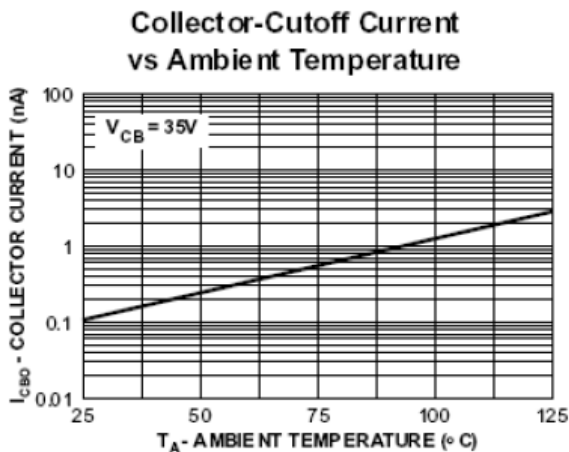
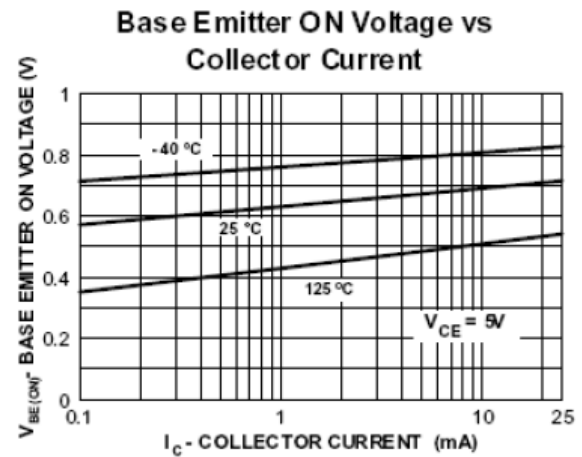
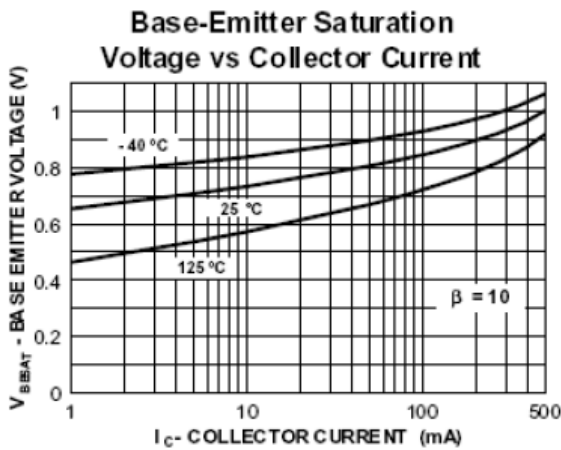
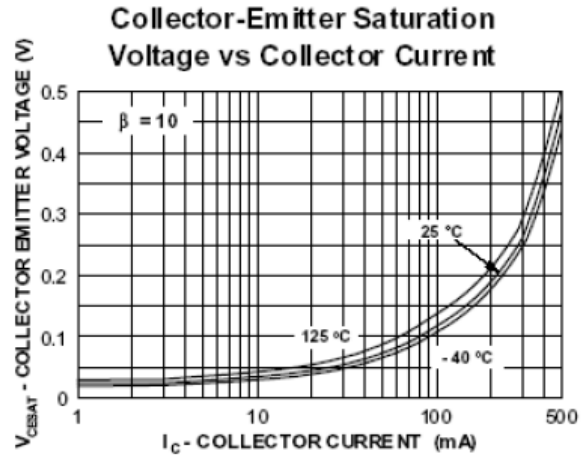
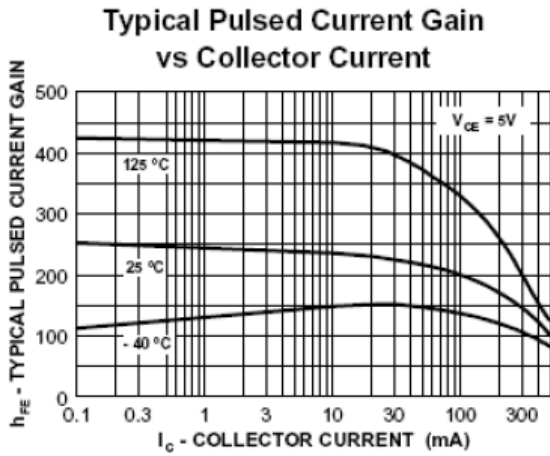
ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = -10\mu A, I_E = 0$	-60		V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = -10mA, I_B = 0$	-60		V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = -10\mu A, I_C = 0$	-5		μV
Collector cut-off current	I_{CBO}	$V_{CB} = -50V, I_E = 0$		-10	nA
Emitter cut-off current	I_{EBO}	$V_{EB} = -5V, I_C = 0$		-50	nA
DC current gain	h_{FE}	$V_{CE} = -1V, I_C = -100\mu A$	75	-	
		$V_{CE} = -1V, I_C = -1mA$	100	-	
		$V_{CE} = -1V, I_C = -10mA$	100	-	
		$V_{CE} = -2V, I_C = -150mA$	100	300	
		$V_{CE} = -10V, I_C = -500mA$	50	-	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -150mA, I_B = -15mA$ $I_C = -500mA, I_B = -50mA$		-0.4 -1.6	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C = -150mA, I_B = -15mA$ $I_C = -500mA, I_B = -50mA$		-1.3 -2.6	V
Transition frequency	f_T	$V_{CE} = -10V, I_C = -20mA,$ $f = 100MHz$	200		MHz
Output Capacitance	C_{obo}	$V_{CB} = -10V, f = 1.0MHz, I_E = 0$	-	8.0	pF
Input Capacitance	C_{ibo}	$V_{EB} = -10V, f = 1.0MHz, I_C = 0$	-	30	pF
Delay time	t_d	$V_{CE} = -30V, I_C = -150mA,$ $I_{B1} = -15mA$		10	ns
Rise time	t_r			40	ns
Storage time	t_s	$V_{CE} = -6V, I_C = -150mA$ $I_{B1} = -I_{B2} = -15mA$		80	ns
Fall time	t_f			30	ns

PNP General Purpose Amplifier

PXT2907A

TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified



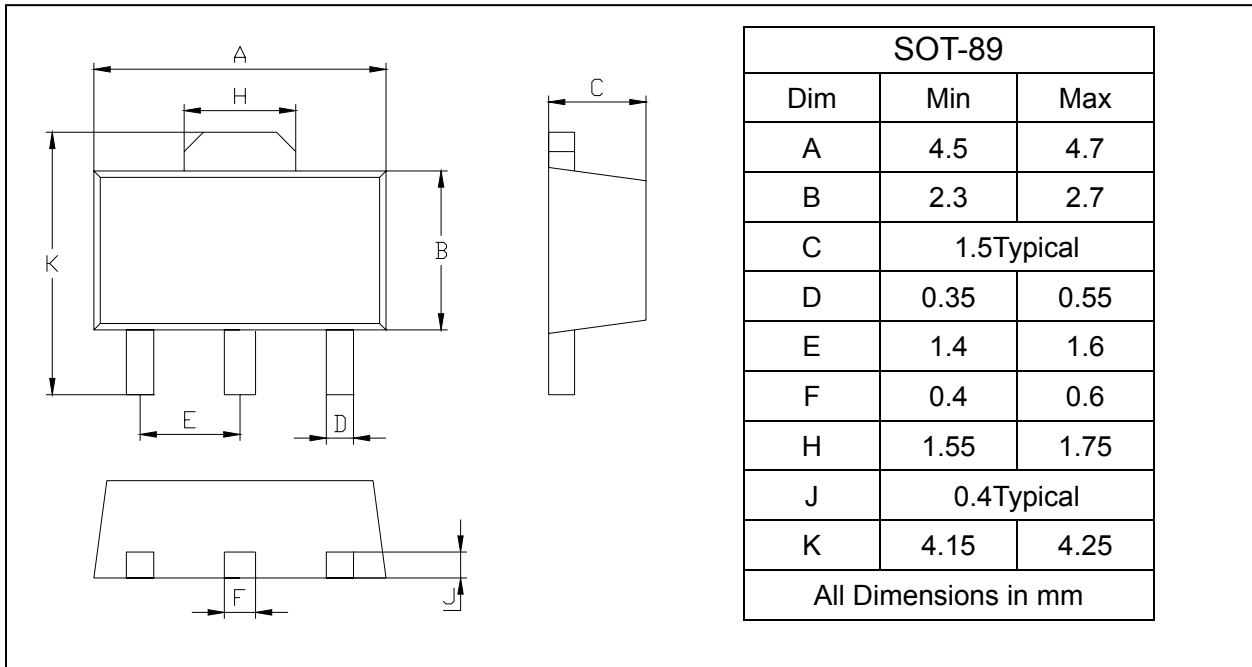
PNP General Purpose Amplifier

PXT2907A

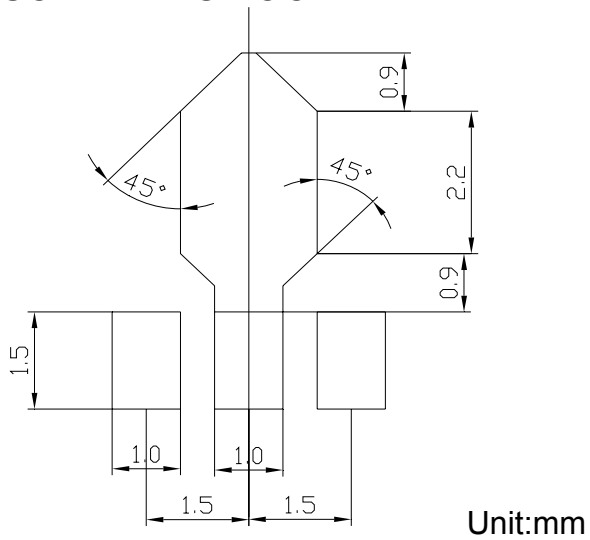
PACKAGE OUTLINE

Plastic surface mounted package

SOT-89



SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
PXT2907A	SOT-89	1000/Tape&Reel

www.s-manuals.com