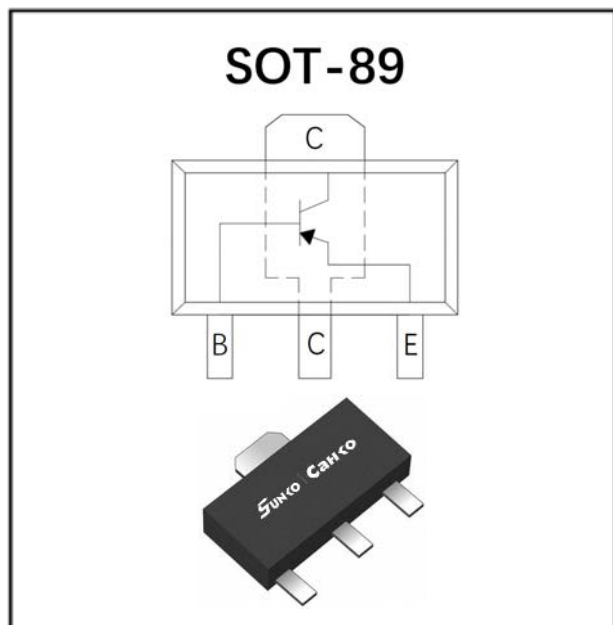


PNP General Purpose Amplifier



Features

- Epoxy meets UL-94 V-0 flammability rating
- Halogen free available upon request by adding suffix "HF"
- Moisture Sensitivity Level 1
- High-speed switching

Mechanical Data

- **Package:** SOT-89
- Molding compound meets UL 94 V-0 flammability rating, -compliant, halogen-free
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Marking:** p2F

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

Item	Symbol	Unit	Conditions	Value
Minimum Collector-Emitter Voltage	V_{CEO}	V	$I_C = -10mA, I_B = 0$	-60
Minimum Collector-Base Voltage	V_{CBO}	V	$I_C = -1mA, I_E = 0$	-60
Minimum Emitter-Base Voltage	V_{EBO}	V	$I_E = -1mA, I_C = 0$	-5
Collector Current	I_C	mA		-600
Collector Power Dissipation	P_C	mW		500
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	°C/W		250
Operation Junction Temperature	T_j	°C		-55 to +150
Storage Temperature	T_{stg}	°C		-55 to +150

PXT2907A

■Electrical Characteristics (Ta=25℃ unless otherwise noted)

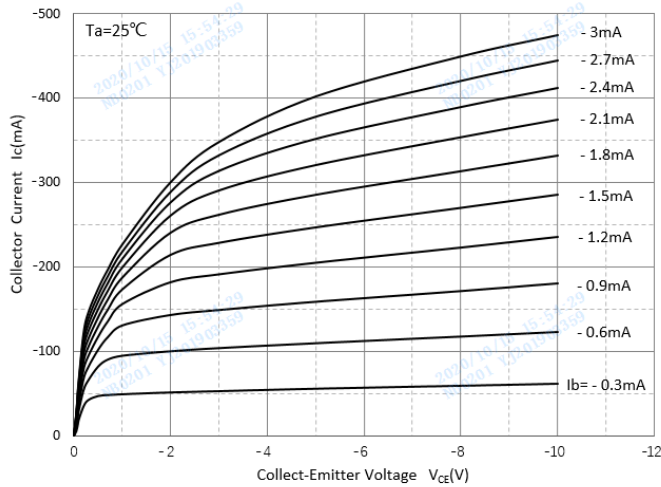
Item	Symbol	Unit	Conditions	Min	TYP	Max
Collector-Emitter Voltage	V_{CEO}	V	$I_C=-10mA, I_B=0$	-60		
Collector-Base Voltage	V_{CBO}	V	$I_C=-1mA, I_E=0$	-60		
Emitter-Base Voltage	V_{EBO}	V	$I_E=-1mA, I_C=0$	-5		
Collector-Base cut-off current	I_{CBO}	nA	$V_{CB}=-50V$			-10
Emitter-Base cut-off current	I_{EBO}	nA	$V_{EB}=-5V$			-10
DC Current Gain	h_{FE1}		$I_C=-0.1mA, V_{CE}=-10V$	75		
	h_{FE2}		$I_C=-1mA, V_{CE}=-10V$	100		
	h_{FE3}		$I_C=-10mA, V_{CE}=-10V$	100		
	h_{FE4}		$I_C=-150mA, V_{CE}=-10V$	100		300
	h_{FE5}		$I_C=-500mA, V_{CE}=-10V$	50		
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	V	$I_C=-150mA, I_B=-15mA$			-0.4
			$I_C=-500mA, I_B=-50mA$			-1.6
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	V	$I_C=-150mA, I_B=-15mA$			-1.3
			$I_C=-500mA, I_B=-50mA$			-2.6
Transition Frequency	f_T	MHz	$I_C=-20mA, V_{CE}=-10V, f=100MHz$	200		
Collector-base Output Capacitance	C_{obo}	pF	$V_{CB}=-10Vdc, f=1MHz, I_E=0$			8
Emitter-base Input Capacitance	C_{ibo}	pF	$V_{EB}=-0.5Vdc, f=1MHz, I_C=0$		35	
Delay Time	t_d	ns	$I_C=-150mA, I_{B1}=-I_{B2}=-15mA$			12
Rise Time	t_r	ns				30
Storage Time	t_s	ns				300
Fall Time	t_f	ns				65

■Ordering Information (Example)

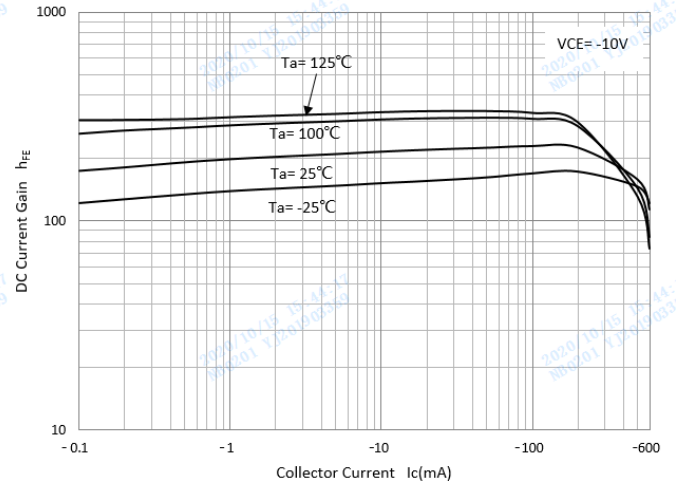
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
PXT2907A	F2	Approximate 055	1000	8000	32000	7" reel

■ Characteristics (Typical)

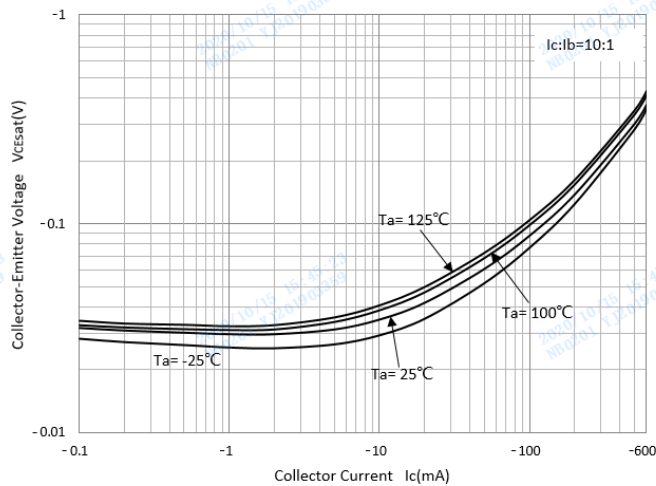
Static Characteristic



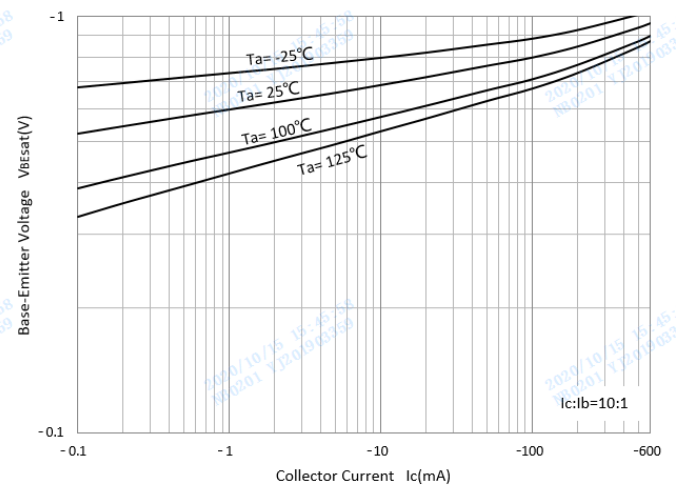
DC Current Gain



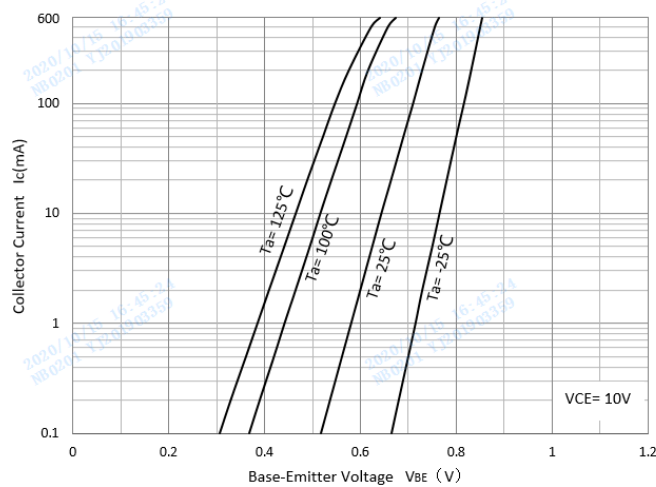
Collector-Emitter Saturation Voltage



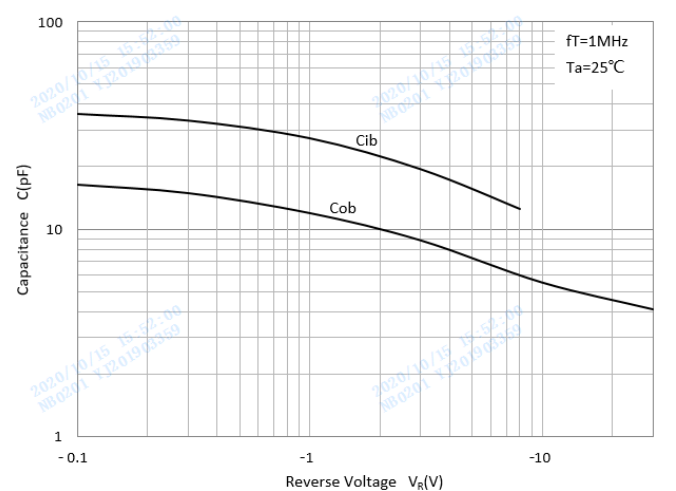
Base-Emitter Saturation Voltage



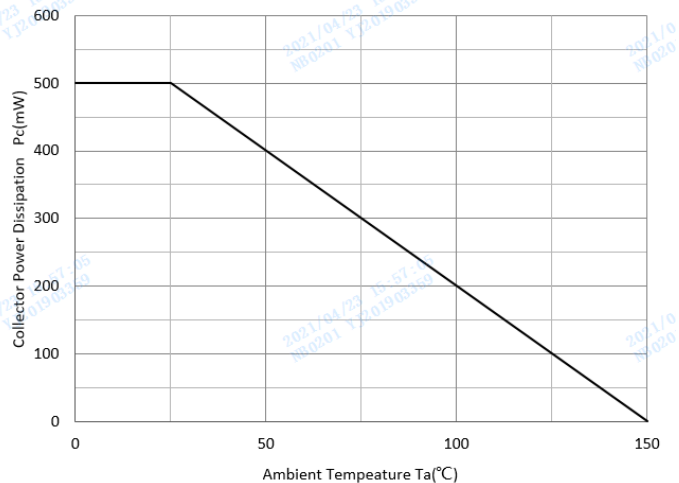
Base-Emitter On Voltage



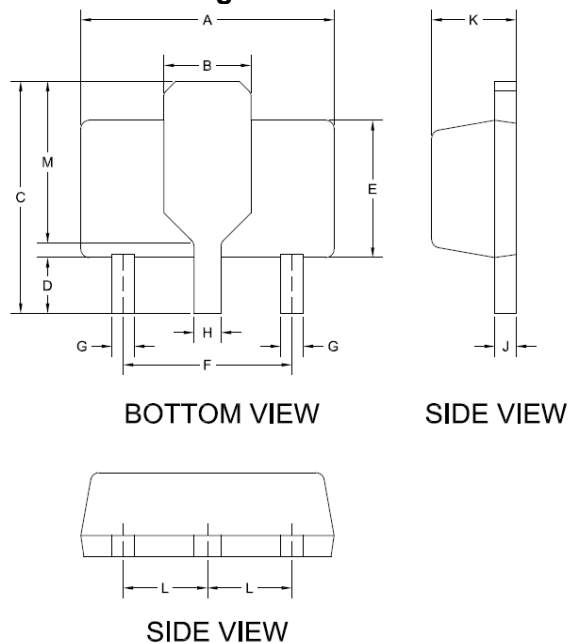
$C_{ob}/C_{ib}-V_{CB}/V_{EB}$



Collector Power Derating Curve

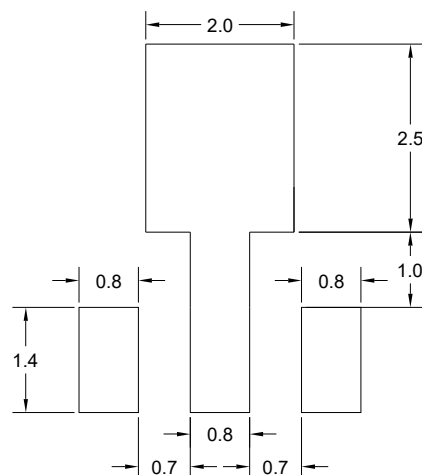


■SOT-89 Package Outline Dimensions



DIM	DIMENSIONS			
	INCHES		MM	
	MIN.	MAX.	MIN.	MAX.
A	0.173	0.181	4.400	4.600
B	0.061 TYP.		1.550 TYP.	
C	0.155	0.167	3.940	4.250
D	0.031	0.047	0.800	1.200
E	0.094	0.102	2.400	2.600
F	0.118 TYP.		3.00 TYP.	
G	0.014	0.019	0.360	0.480
H	0.017	0.022	0.440	0.560
J	0.014	0.017	0.350	0.440
K	0.055	0.063	1.400	1.600
L	0.059 TYP.		1.500 TYP.	
M	0.108 TYP.		2.750 TYP.	

■SOT-89 Suggested Pad Layout



UNIT:MM

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