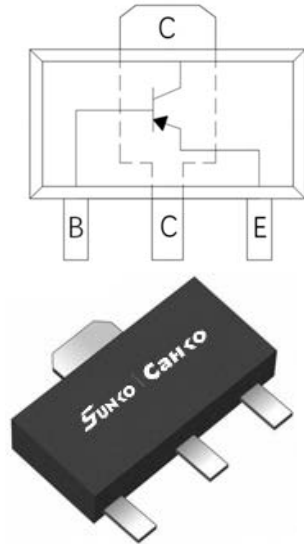


PXTA94

PNP General Purpose Amplifier

SOT-89



Features

- Moisture sensitivity level 1
- Halogen free and
- Surface mount package ideally suited for automatic insertion

Application

- Signal amplification
- Switching circuit

Mechanical data

- **Package:** SOT-89
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102

■ Maximum Ratings (T_a=25°C Unless otherwise specified)

Item	Symbol	Unit	Conditions	Value
Device marking code				A94
Collector-base voltage	V _{CBO}	V	I _C =100uA, I _E =0	-400
Collector-emitter voltage	V _{CEO}	V	I _C =1mA, I _B =0	-400
Emitter-base voltage	V _{EBO}	V	I _E =100uA, I _C =0	-5
Collector current	I _C	A		-0.2
Peak Collector current	I _{CM}	A	single pulse; t _p ≤ 1 ms	-0.3
Power dissipation	P _D	mW		500
Junction temperature	T _J	°C		-55 to +150
Storage temperature	T _{STG}	°C		-55 to +150

PXTA94

■ Electrical Characteristics (T_a=25°C Unless otherwise specified)

Item	Symbol	Unit	Conditions	Min	Typ	Max
Collector-base breakdown voltage	V _{(BR)CBO}	V	I _C =-100μA, I _E =0	-400		
Collector-emitter breakdown voltage	V _{(BR)CEO}	V	I _C =-1mA, I _B =0	-400		
Emitter-base breakdown voltage	V _{(BR)EBO}	V	I _E =-100μA, I _C =0	-5		
Collector-base cut-off current	I _{CBO}	nA	V _{CB} =-400V			-100
Emitter-base cut-off current	I _{EBO}	nA	V _{EB} =-4V			-100
DC current gain	h _{FE}		V _{CE} =-10V I _C =-1mA	70		
			V _{CE} =-10V I _C =-10mA	80		300
			V _{CE} =-10V I _C =-50mA	80		
			V _{CE} =-10V I _C =-100mA	60		
Collector-emitter saturation voltage	V _{CE(sat)}	V	I _C =-10mA I _B =-1mA			-0.2
			I _C =-50mA I _B =-5mA			-0.3
Base-emitter saturation voltage	V _{BE(sat)}	V	I _C =-10mA I _B =-1mA			-0.75

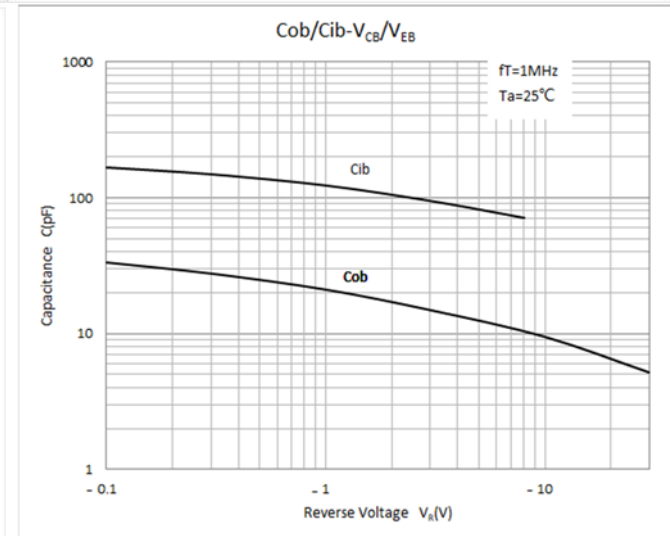
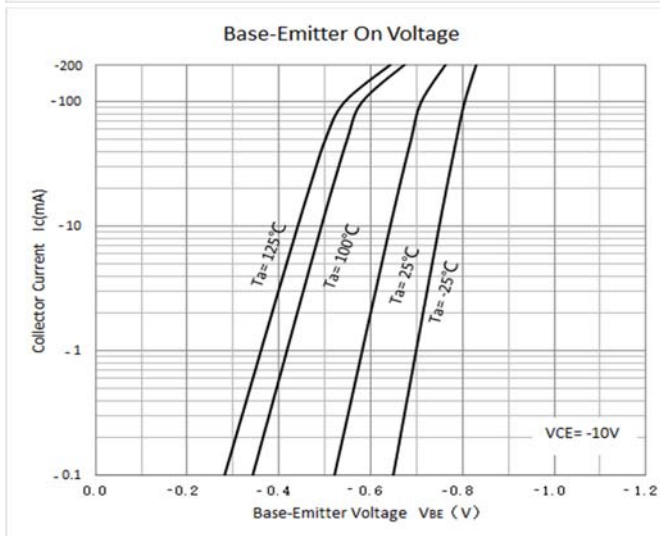
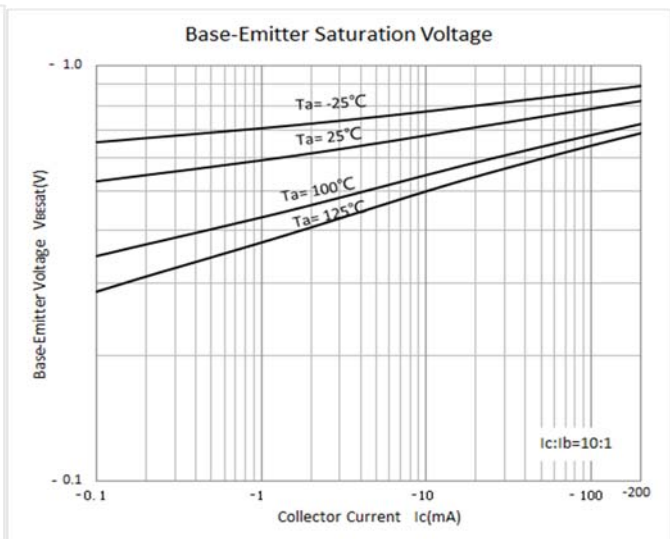
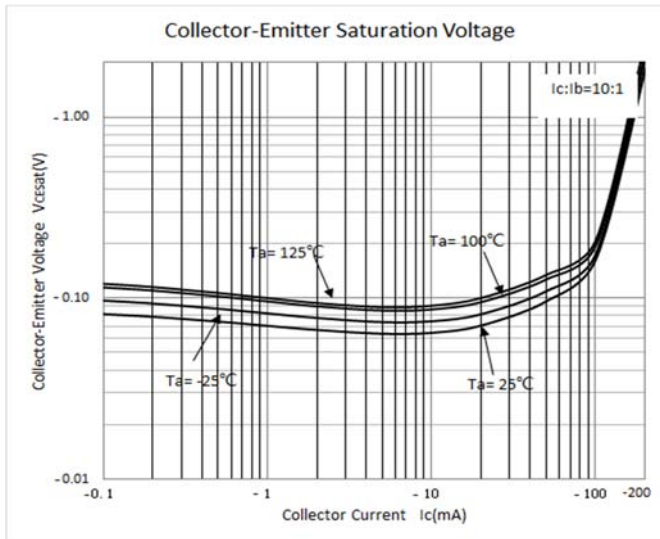
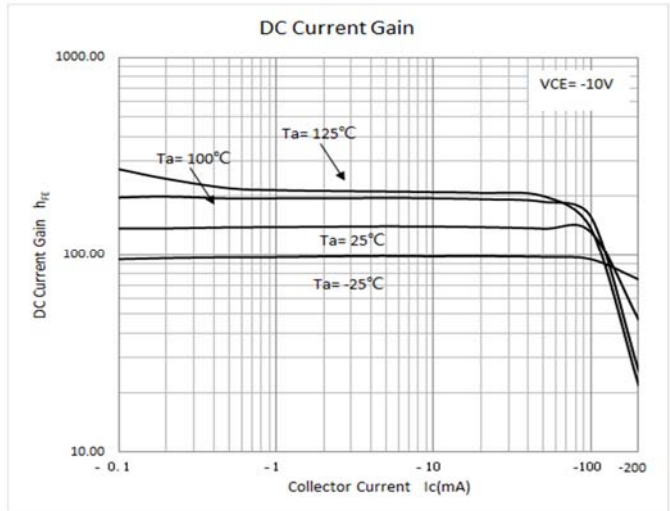
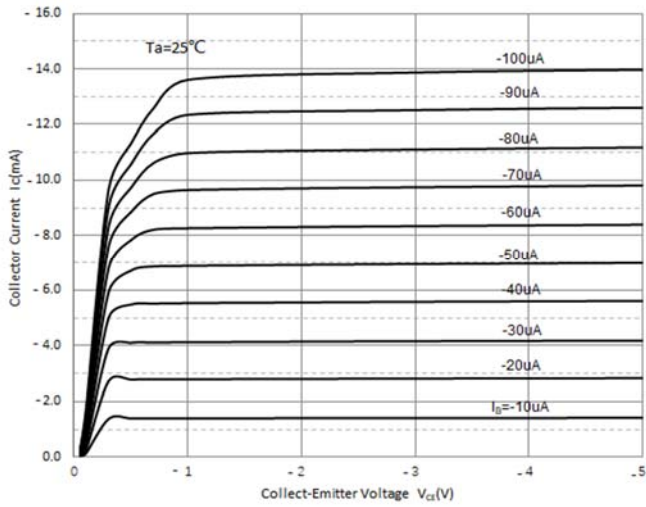
■ Thermal Characteristics

Parameter	Symbol	Unit	Value
Thermal resistance, junction-to-ambient	R _{θJ-A} ⁽¹⁾	°C/W	250
Thermal resistance, junction-to-case	R _{θJ-C} ⁽¹⁾	°C/W	50

Note: The device is installed and tested on 25.4 * 25.4 * 1.5mm P.C.B.

PXTA94

Characteristics

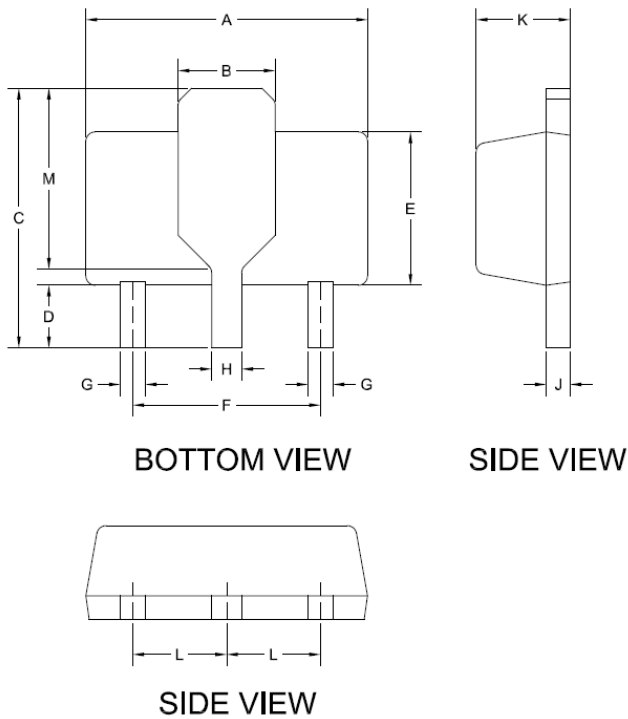


PXTA94

Ordering Information

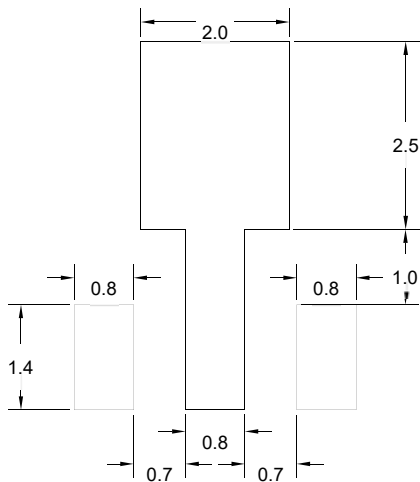
Preferred P/N	Packing code	Unit weight(g)	Minimum package(pcs)	Inner box quantity(pcs)	Outer carton quantity(pcs)	Delivery mode
PXTA94	F2	Approximate 0.055	1000	8000	32000	7" reel

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.	

Suggested Pad Layout



UNIT:MM

PXTA94

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