

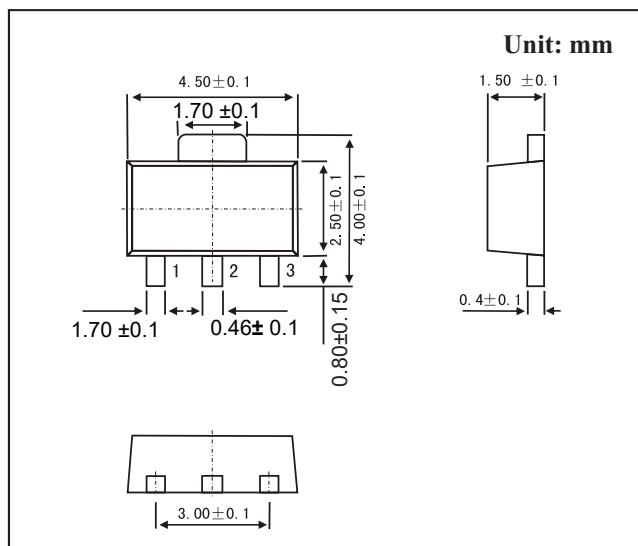
SOT-89 Plastic-Encapsulate Transistors

Features

- Collector Current Capability IC=0.2A
- Collector Emitter Voltage VCEO=40V
- Compliment to PXT3906
- NPN Transistors

MECHANICAL DATA

- Case style:SOT-89molded plastic
- Mounting position:any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V _{CBO}	60	V
Collector - Emitter Voltage	V _{CEO}	40	
Emitter - Base Voltage	V _{EBO}	6	
Collector Current - Continuous	I _c	0.2	A
Collector Power Dissipation	P _c	0.5	W
Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{stg}	-55 to 150	

PACKAGE INFORMATION

Device	Package	Shipping
PXT3904 (KXT3904)	SOT-89	1000/Tape&Reel

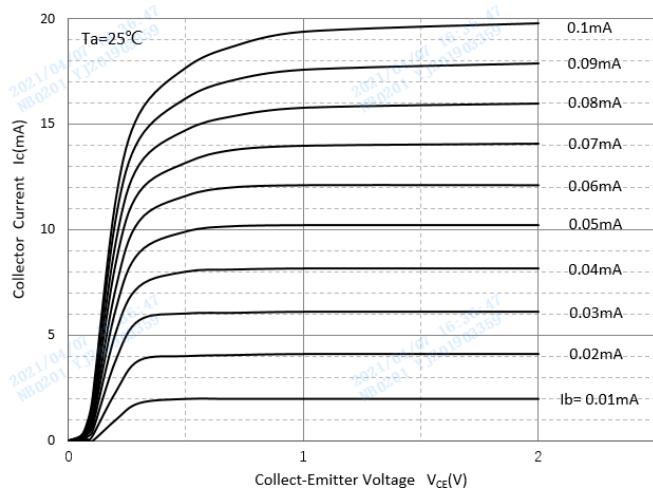
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{CBO}	I _c = 100 μA, I _e = 0	60			V
Collector-emitter breakdown voltage	V _{CEO}	I _c = 1 mA, I _b = 0	40			
Emitter-base breakdown voltage	V _{EBO}	I _e = 100 μA, I _c = 0	6			
Collector-base cut-off current	I _{CBO}	V _{CB} = 30 V, I _e = 0			50	nA
Collector-emitter cut-off current	I _{CEX}	V _{CE} = 30 V, V _{BE(off)} = 3V			50	
Emitter cut-off current	I _{EBO}	V _{EB} = 6V, I _c = 0			50	
Collector-emitter saturation voltage	V _{CE(sat)}	I _c =10 mA, I _b =1mA			0.2	V
		I _c =50 mA, I _b =5mA			0.3	
Base-emitter saturation voltage	V _{BE(sat)}	I _c =10 mA, I _b =1mA	0.65		0.85	
		I _c =50 mA, I _b =5mA			0.95	
DC current gain	h _{FE}	V _{CE} = 1V, I _c = 0.1mA	60			
		V _{CE} = 1V, I _c = 1mA	80			
		V _{CE} = 1V, I _c = 10mA	100		300	
		V _{CE} = 1V, I _c = 50mA	60			
		V _{CE} = 1V, I _c = 100mA	30			
Noise figure	NF	V _{CE} =5V, I _c =0.1mA, f=10Hz~15.7kHz, R _s =1KΩ			5	dB
Delay time	t _d	I _c =10mA, I _{b1} =I _{b2} =1mA			35	ns
Rise time	t _r				35	
Storage time	t _s				200	
Fall time	t _f				50	
Collector output capacitance	C _{ob}	V _{CB} = 5V, I _e = 0, f=1MHz			4	pF
Emitter capacitance	C _e	V _{EB} =0.5V, I _c =0, f=1MHz			8	
Transition frequency	f _t	V _{CE} = 20V, I _c = 10mA, f=100MHz	300			MHz

Marking

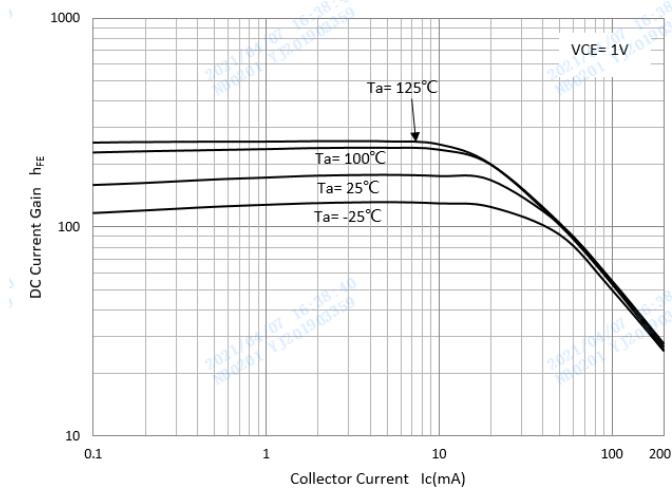
Marking	1A
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RATINGS AND CHARACTERISTIC CURVES

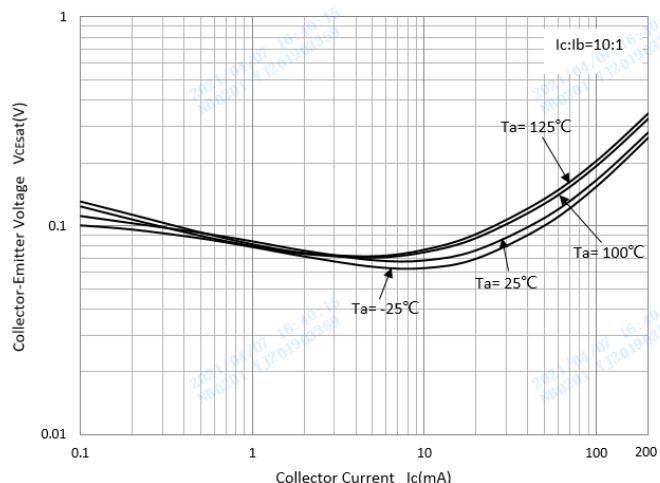
Static Characteristic



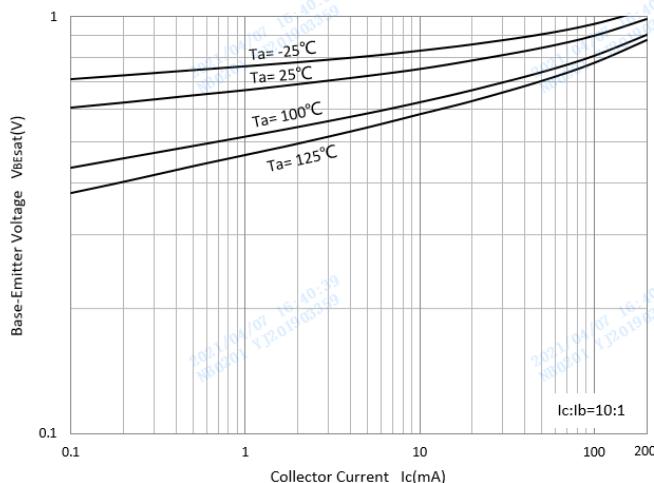
DC Current Gain



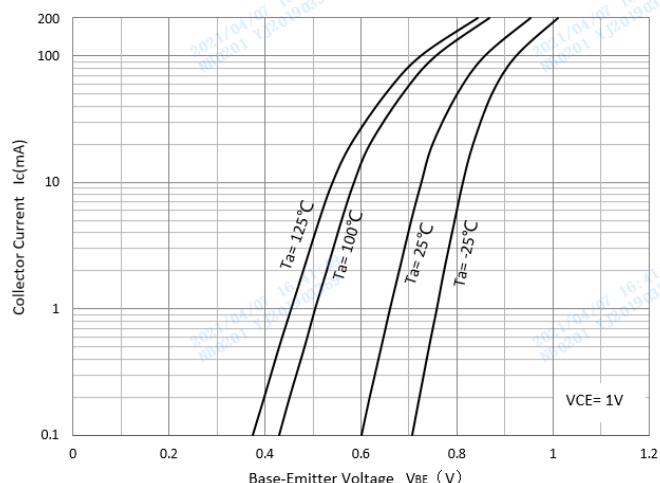
Collector-Emitter Saturation Voltage



Base-Emitter Saturation Voltage



Base-Emitter On Voltage



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

