

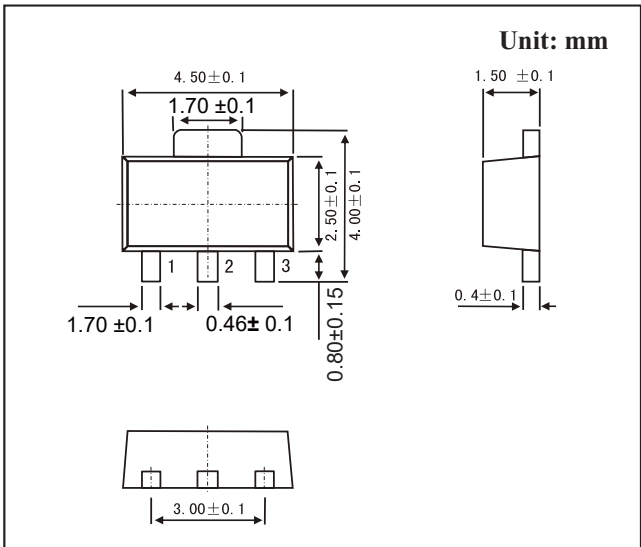
SOT-89 Plastic-Encapsulate Transistors

Features

- High current (max. 500mA).
- Low voltage (max. 150 V).
- Surface Mount PNP Silicon Transistor

MECHANICAL DATA

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



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbol	Rating	Unit
Collector-base voltage	V _{CB0}	-160	V
Collector-emitter voltage	V _{CE0}	-150	V
Emitter-base voltage	V _{EB0}	-5	V
Collector current (DC)	I _C	-500	mA
power dissipation	P _D	1.2	W
thermal resistance Junction- to-ambient	R _{θJA}	104	°C/W
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-65 to +150	°C

PACKAGE INFORMATION

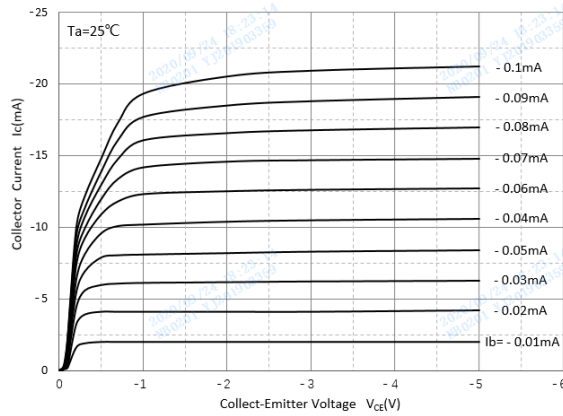
Device	Package	Shipping
KXT5401 (CXT5401)	SOT-89	1000/Tape&Reel

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector to base breakdown voltage	V _{CB0}	I _C =-100 μ A	-160			V
Collector to emitter breakdown voltage	V _{CE0}	I _C =-1.0mA	-150			V
Emitter to base breakdown voltage	V _{EB0}	I _E =-10 μ A	-5.0			V
Collector cutoff current	I _{CBO}	V _{CB} =- 120 V, I _E = 0			-50	nA
		V _{CB} =- 120 V, T _A =100 °C			-50	μ A
DC current gain	h _{FE}	I _C = -1.0 mA; V _{CE} = -5.0 V	50			
		I _C = -10mA; V _{CE} = -5.0V	60		240	
		I _C = -50 mA; V _{CE} = -5.0V	50			
Collector to emitter saturation voltage	V _{CE(sat)}	I _C =- 10 mA; I _B = -1.0mA			-0.2	V
		I _C = -50 mA; I _B = -5.0mA			-0.5	V
Base to emitter saturation voltage	V _{BE(sat)}	I _C = -10 mA; I _B = -1.0mA			-1.0	V
		I _C = -50 mA; I _B = -5.0mA			-1.0	V
Output capacitance	C _{ob}	V _{CB} =-10 V, I _E = 0, f=1.0MHz			6.0	pF
Transition frequency	f _T	I _C = -10 mA; V _{CE} =-10V; f = 100 MHz	100		300	MHz

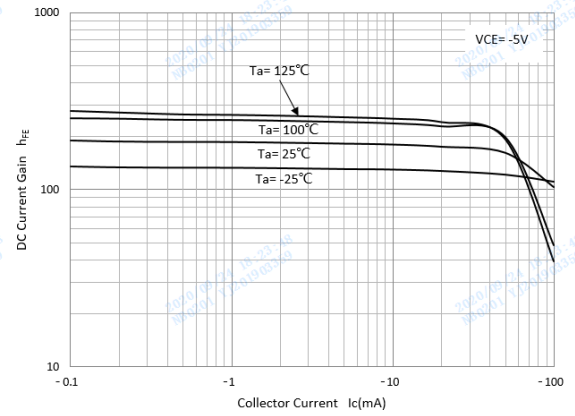
Marking	5401
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RATINGS AND CHARACTERISTIC CURVES

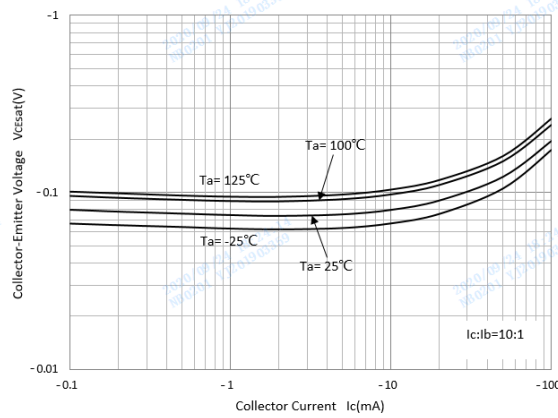
Static Characteristic



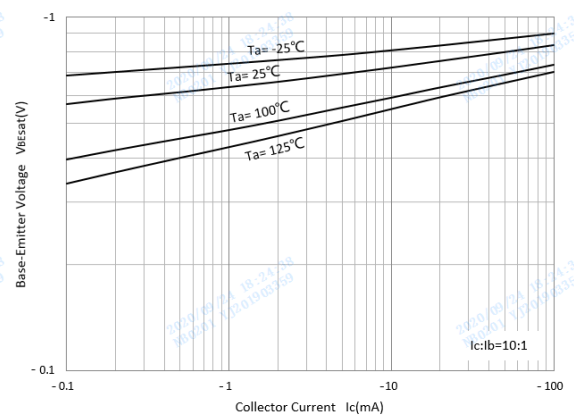
DC Current Gain



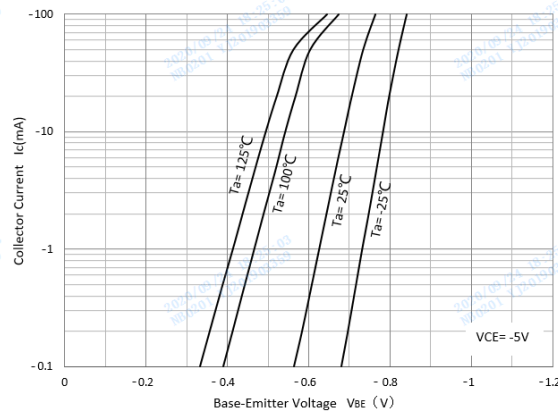
Collector-Emitter Saturation Voltage



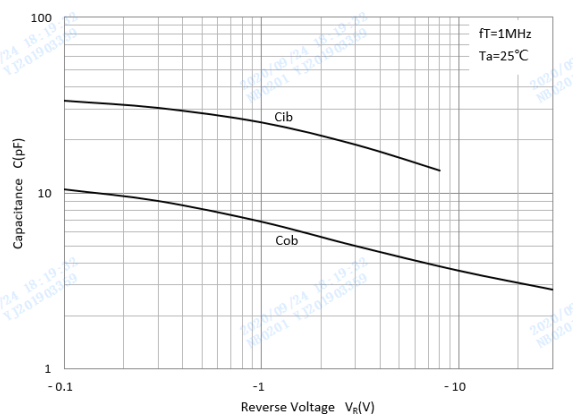
Base-Emitter Saturation Voltage



Base-Emitter On Voltage



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



Collector Power Derating Curve

