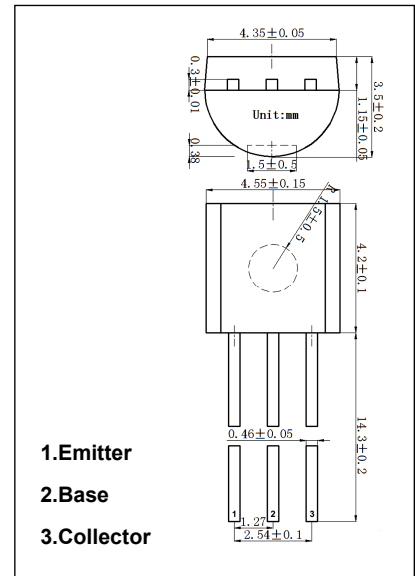


# TO-92 Plastic-Encapsulate Transistors

## 2N5401H-98 PNP Transistors

### Features

- Switching and Amplification in High Voltage
- Applications such as Telephony
- Low Current
- High Voltage



### Maximum Ratings ( $T_a=25^{\circ}\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Unit
$V_{CEO}$	Collector Emitter Voltage	-150	V
$V_{CBO}$	Collector Base Voltage	-160	V
$V_{EBO}$	Emitter Base Voltage	-5	V
$I_C$	Collector Current	-600	mA
$P_C$	Collector Power Dissipation	625	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	200	$^{\circ}\text{C}/\text{W}$
$T_j$	Junction Temperature	150	$^{\circ}\text{C}$
$T_{stg}$	Storage Temperature	-55~+150	$^{\circ}\text{C}$

### Electrical Characteristics ( $T_a=25^{\circ}\text{C}$ unless otherwise specified)

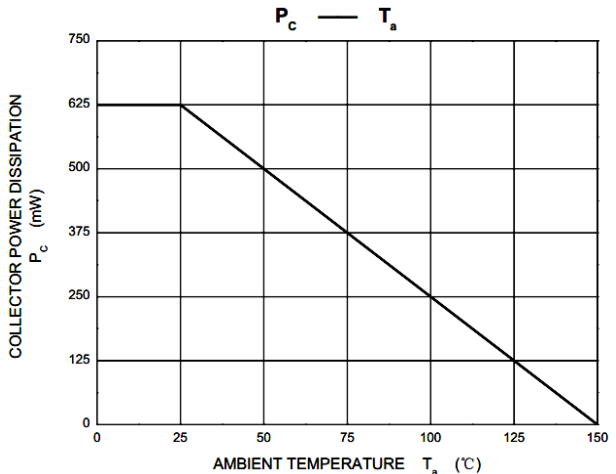
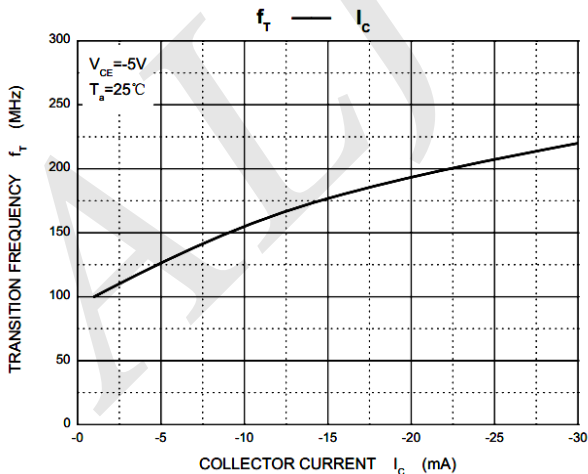
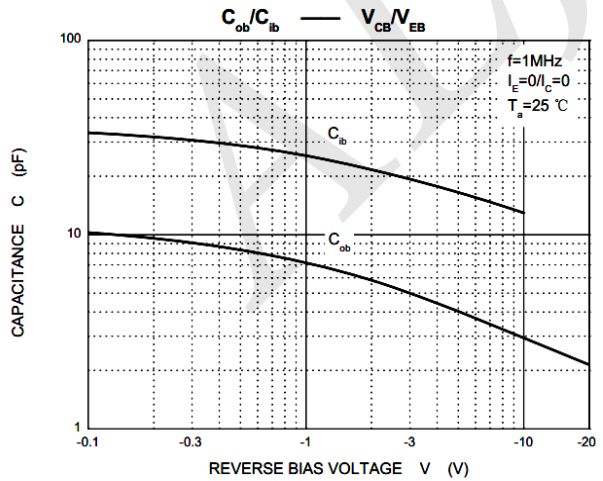
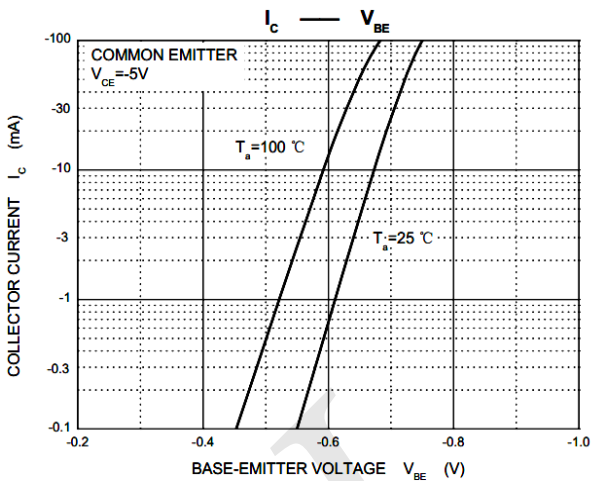
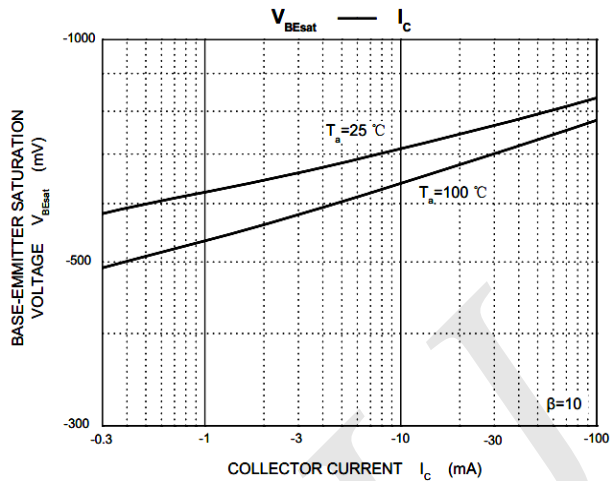
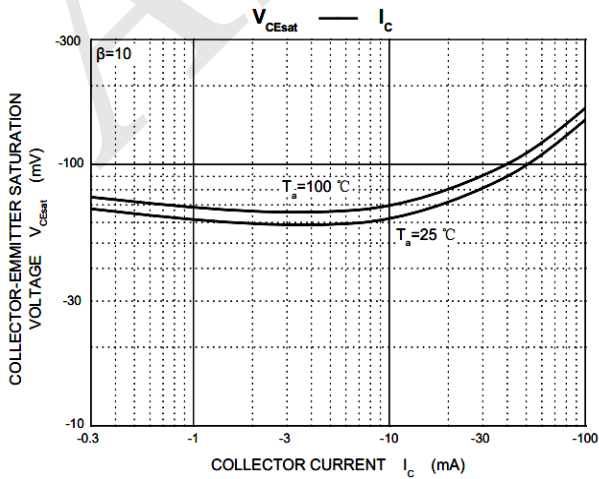
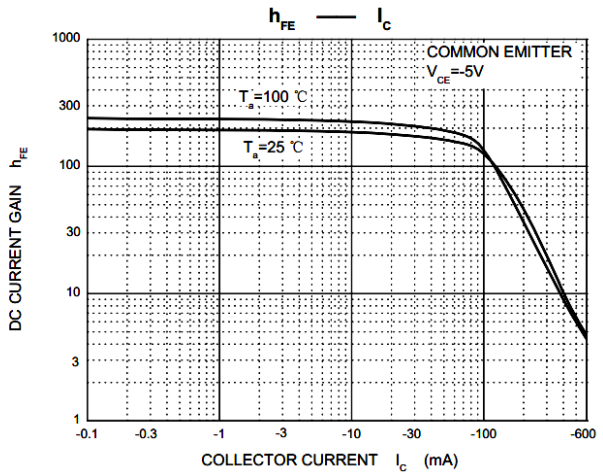
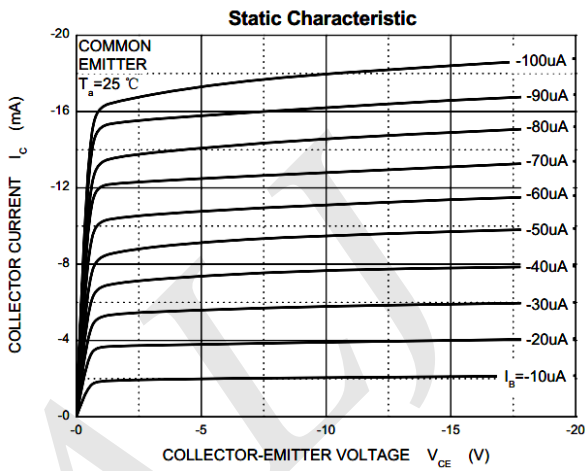
Symbol	Parameter	Test Conditions	Min	Max	Unit
$V_{(BR)CBO}$	Collector-base breakdown voltage	$I_C=-0.1\text{mA}, I_E=0$	-160		V
$V_{(BR)CEO}$	Collector-emitter breakdown voltage	$I_C=-1\text{mA}, I_B=0$	-150		V
$V_{(BR)EBO}$	Emitter-base breakdown voltage	$I_E=-0.01\text{mA}, I_C=0$	-5		V
$I_{CBO}$	Collector cut-off current	$V_{CB}=-120\text{V}, I_E=0$		-50	nA
$I_{EBO}$	Emitter cut-off current	$V_{EB}=-3\text{V}, I_C=0$		-50	nA
$h_{FE(1)}$	Dc current gain	$V_{CE}=-5\text{V}, I_C=-1\text{mA}$	60		
$h_{FE(2)}$		$V_{CE}=-5\text{V}, I_C=-10\text{mA}$	60	300	
$h_{FE(3)}$		$V_{CE}=-5\text{V}, I_C=-50\text{mA}$	50		
$V_{CE(sat)}$	Collector-emitter saturation voltage	$I_C=-50\text{mA}, I_B=-5\text{mA}$		-0.5	V
$V_{BE(sat)}$	Base-emitter saturation voltage	$I_C=-50\text{mA}, I_B=-5\text{mA}$		-1	V
$f_T$	Transition frequency	$V_{CE}=-5\text{V}, I_C=-10\text{mA}, f=30\text{MHz}$	100	300	MHz

\*Pulse test: Pulse Width <300 $\mu\text{s}$ , Duty Cycle<2.0%

### Classification OF $h_{FE(1)}$

RANK		A	B	C
RANGE	100-160	100-150	150-200	200-300

# Typical Characteristics



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