

TO-92 Plastic-Encapsulate Transistors

MPSA56 TRANSISTOR (PNP)

FEATURES

- General Purpose Switching and Amplification.

MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

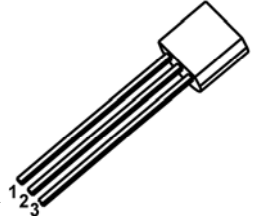
Symbol	Parameter	Value	Unit
V_{CB0}	Collector-Base Voltage	-80	V
V_{CE0}	Collector-Emitter Voltage	-80	V
V_{EB0}	Emitter-Base Voltage	-4	V
I_C	Collector Current	-0.5	A
P_C	Collector Power Dissipation	625	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	200	$^{\circ}\text{C}/\text{W}$
T_j	Junction Temperature	150	$^{\circ}\text{C}$
T_{stg}	Storage Temperature	-55~+150	$^{\circ}\text{C}$

TO - 92

1.EMITTER

2.BASE

3.COLLECTOR

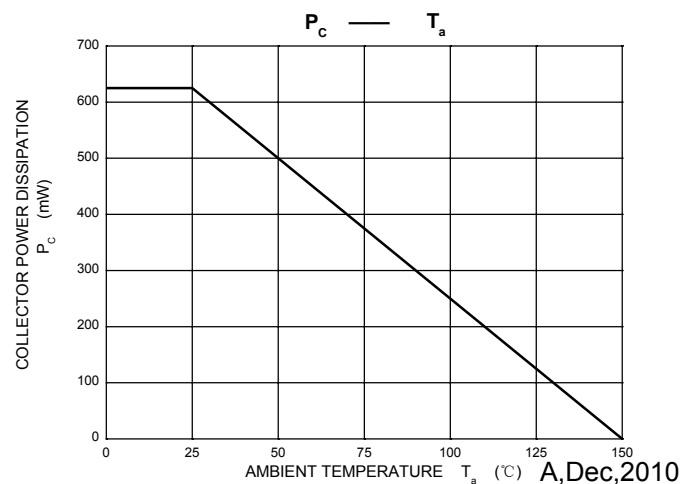
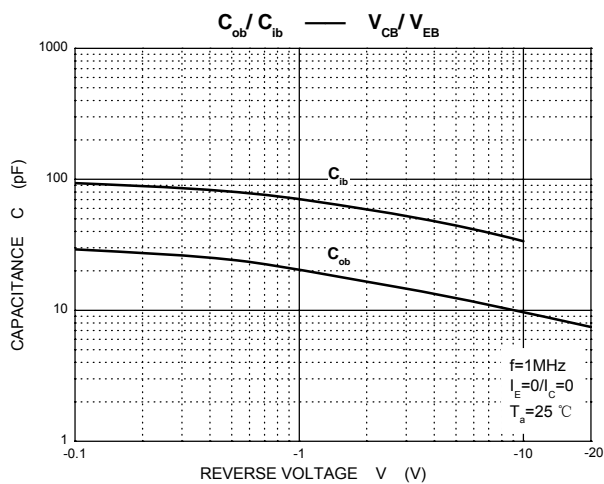
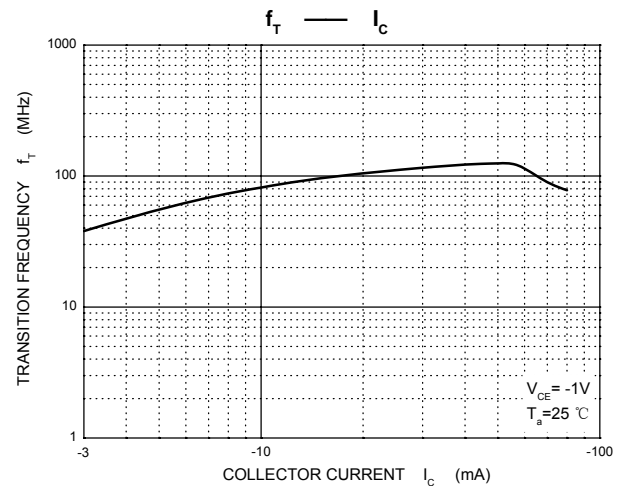
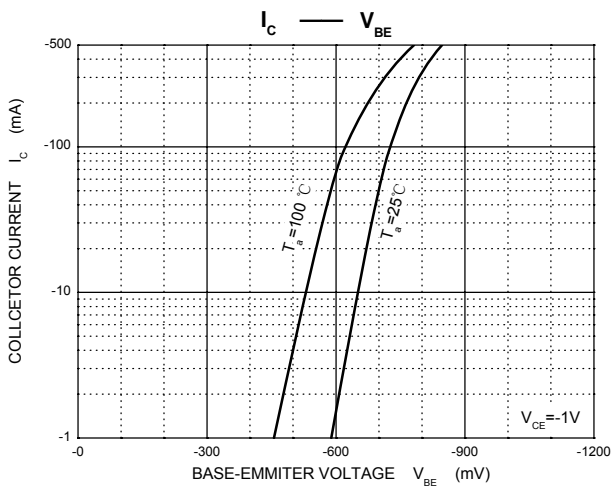
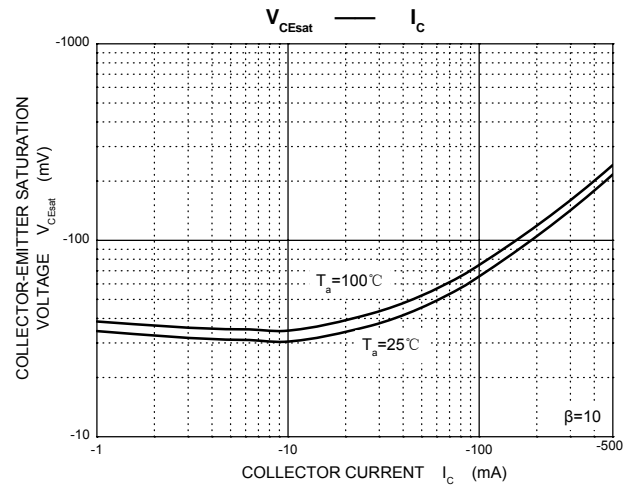
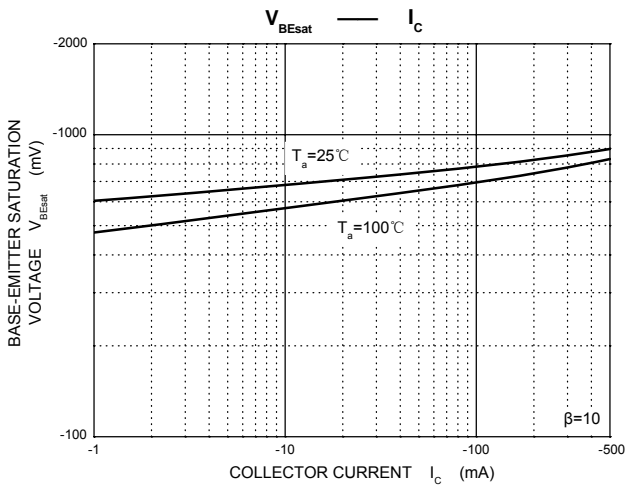
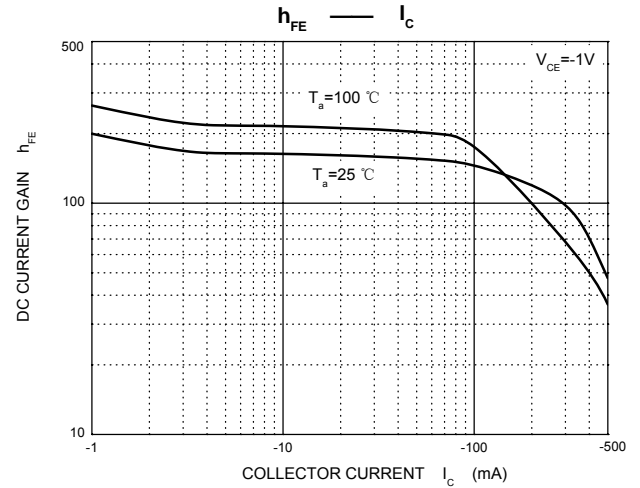
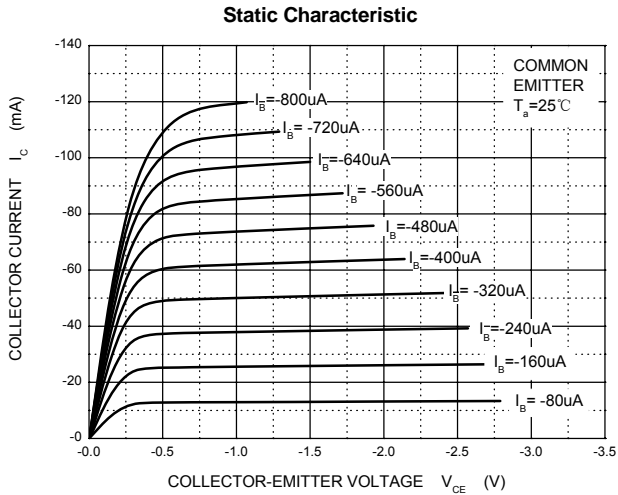


ELECTRICAL CHARACTERISTICS ($T_a=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CB0}$	$I_C = -0.1\text{mA}, I_E = 0$	-80			V
Collector-emitter breakdown voltage	$V_{(BR)CE0}$	$I_C = -1\text{mA}, I_B = 0$	-80			V
Emitter-base breakdown voltage	$V_{(BR)EB0}$	$I_E = -0.1\text{mA}, I_C = 0$	-4			V
Collector cut-off current	I_{CBO}	$V_{CB} = -80\text{V}, I_E = 0$			-0.1	μA
Collector cut-off current	I_{CEO}	$V_{CE} = -60\text{V}, I_B = 0$			-0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = -4\text{V}, I_C = 0$			-0.1	μA
DC current gain	$h_{FE(1)}$	$V_{CE} = -1\text{V}, I_C = -10\text{mA}$	100			
	$h_{FE(2)}$	$V_{CE} = -1\text{V}, I_C = -100\text{mA}$	100			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -100\text{mA}, I_B = -10\text{mA}$			-0.25	V
Base-emitter voltage	V_{BE}	$I_C = -100\text{mA}, V_{CE} = -1\text{V}$			-1.2	V
Transition frequency	f_T	$V_{CE} = -1\text{V}, I_C = -100\text{mA}, f = 100\text{MHz}$	50			MHz

Typical Characteristics

MPSA56



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