

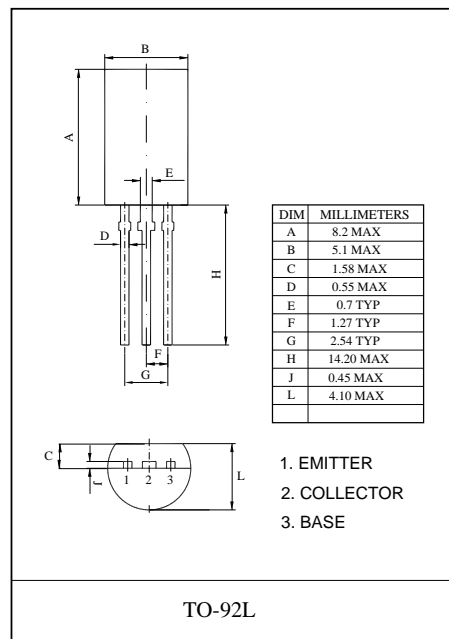
FTB985 TRANSISTOR (PNP)

FEATURES

- Power Supplies, Relay Drivers, Lamp Drivers
- Adoption of FBET,MBIT Processes
- Low Saturation Voltage
- Large Current Capacity and Wide ASO

MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CB0}	Collector-Base Voltage	-60	V
V _{CEO}	Collector-Emitter Voltage	-50	V
V _{EBO}	Emitter-Base Voltage	-6	V
I _C	Collector Current -Continuous	-3	A
P _C	Collector Power Dissipation	0.9	W
R _{θJA}	Thermal Resistance Junction to Ambient	139	°C/W
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55-150	°C



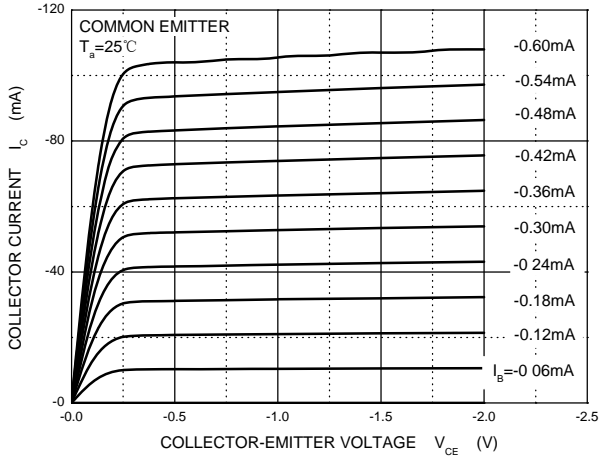
ELECTRICAL CHARACTERISTICS (T_{amb}=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-10μA, I _E =0	-60			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-1mA, I _B =0	-50			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-10μA, I _C =0	-6			V
Collector cut-off current	I _{CBO}	V _{CB} =-40V, I _E =0			-1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =-4V, I _C =0			-1	μA
DC current gain	h _{FE(1)}	V _{CE} =-2V, I _C =-100mA	100		560	
	h _{FE(2)}	V _{CE} =-2V, I _C =-3A	40			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-2A, I _B =-100mA			-0.7	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =-2A, I _B =-100mA			-1.2	V
Transition frequency	f _T	V _{CE} =-10V, I _C =-50mA		150		MHz
Collector output capacitance	C _{ob}	V _{CB} =-10V, I _E =0, f=1MHz		39		pF

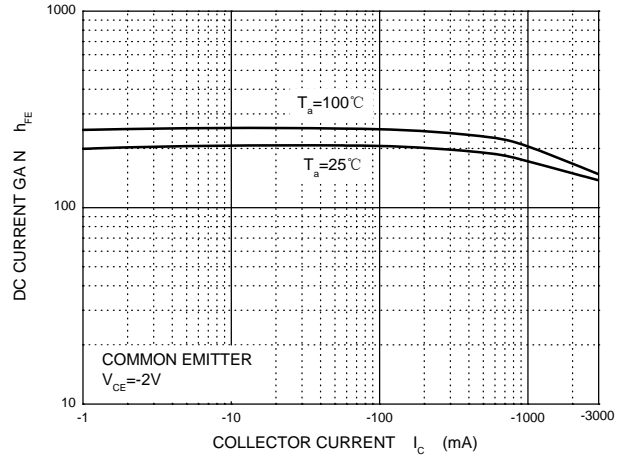
CLASSIFICATION OF h_{FE(1)}

Rank	R	S	T	U
Range	100-200	140-280	200-400	280-560

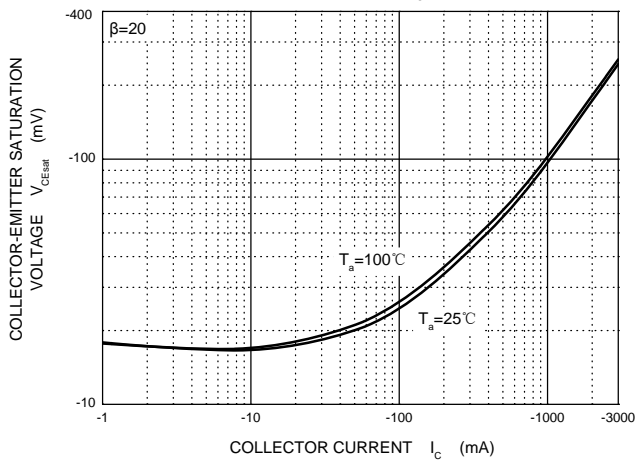
Static Characteristic



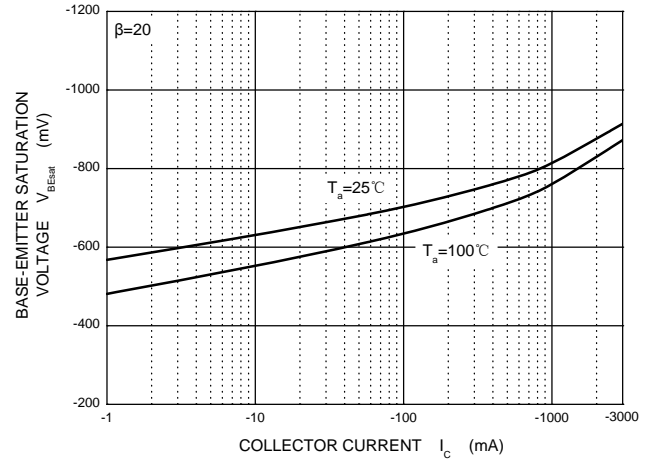
$h_{FE} - I_c$



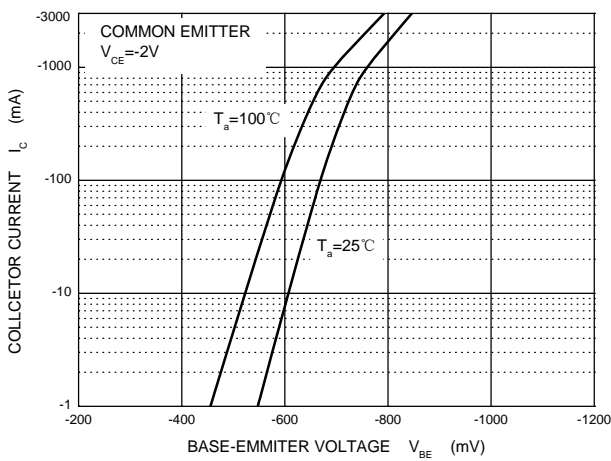
$V_{CEsat} - I_c$



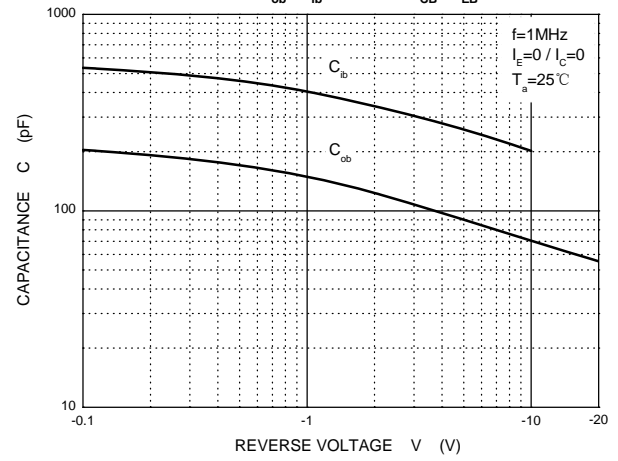
$V_{BEsat} - I_c$



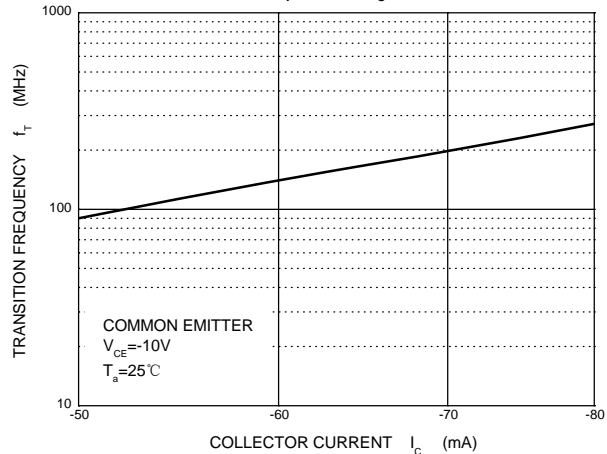
$I_c - V_{BE}$



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



$f_T - I_c$



$P_c - T_a$

