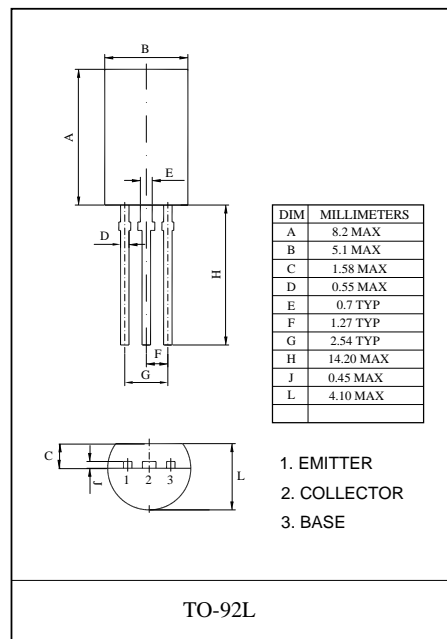


FEATURES

Power Amplifier Applications
Complementary to FTC2655

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

Symbol	Parameter	Value	Unit
V _{CB0}	Collector-Base Voltage	-50	V
V _{CE0}	Collector-Emitter Voltage	-50	V
V _{EB0}	Emitter-Base Voltage	-5	V
I _C	Collector Current –Continuous	-2	A
P _C	Collector Power Dissipation	900	mW
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55-150	°C



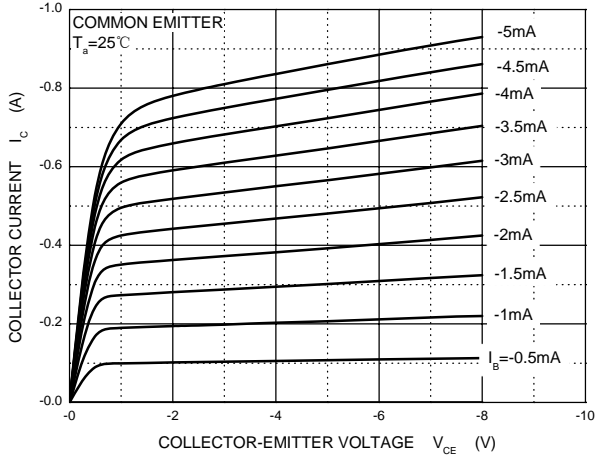
ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = -100μA, I _E = 0	-50			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = -10mA, I _B = 0	-50			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E = -100μA, I _C = 0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} = -50V, I _E = 0			-1	μA
Emitter cut-off current	I _{EBO}	V _{EB} = -5V, I _C = 0			-1	μA
DC current gain	h _{FE(1)}	V _{CE} = -2V, I _C = -0.5A	70		240	
	h _{FE(2)}	V _{CE} = -2V, I _C = -1.5A	40			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = -1A, I _B = -50mA			-0.5	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C = -1A, I _B = -50mA			-1.2	V
Transition frequency	f _T	V _{CE} = -2V, I _C = -500mA		100		MHz
Collector output capacitance	C _{ob}	V _{CB} = -10V, I _E = 0, f = 1MHz		40		pF
Turn-on time	t _{on}	V _{CC} = -30V, I _{B1} = -I _{B2} = -0.05A, I _C = -1A		0.1		μs
Storage time	t _s			1		μs
Fall time	t _f			0.1		μs

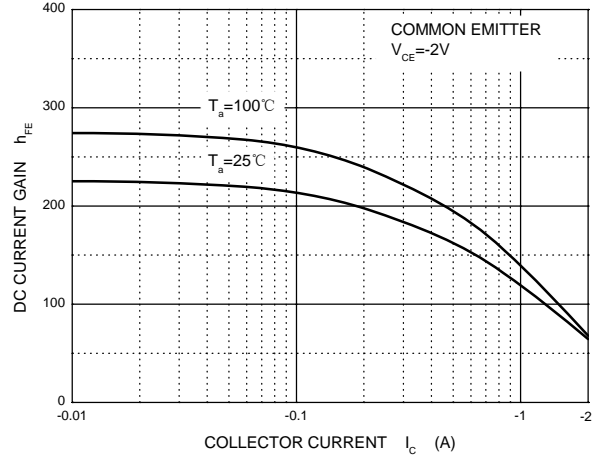
CLASSIFICATION OF h_{FE(1)}

Rank	O	Y
Range	70-140	120-240

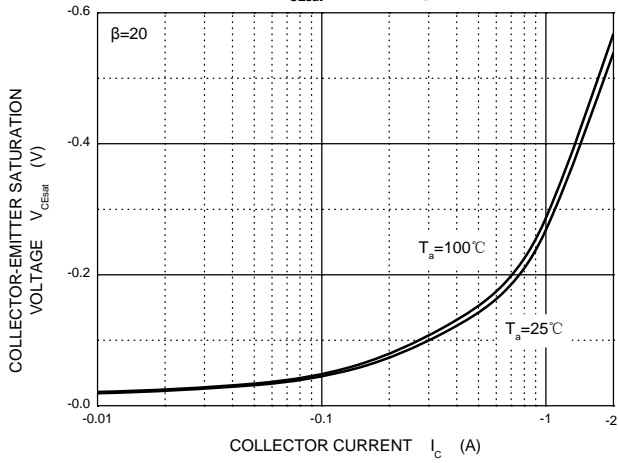
Static Characteristic



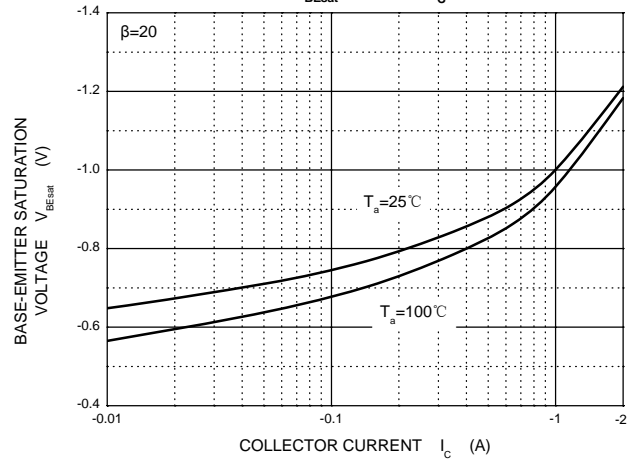
h_{FE} — I_c



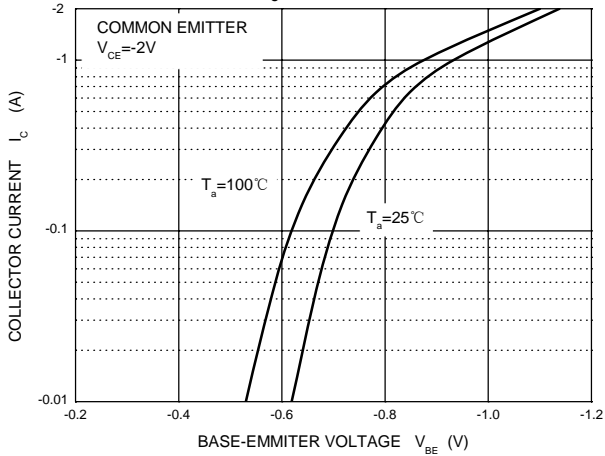
V_{CEsat} — I_c



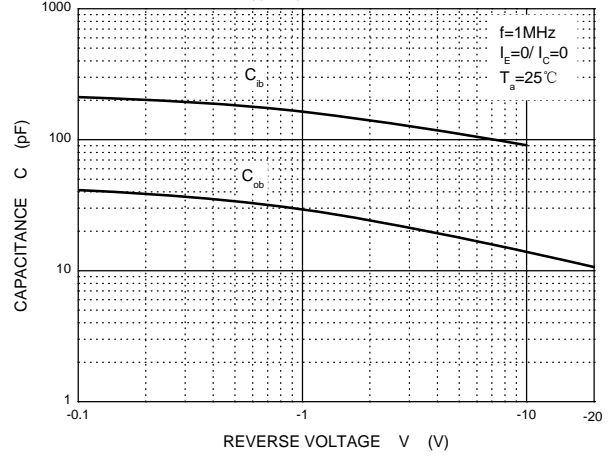
V_{BEsat} — I_c



I_c — V_{BE}



C_{ob}/C_{ib} — V_{CB}/V_{EB}



P_c — T_a

