

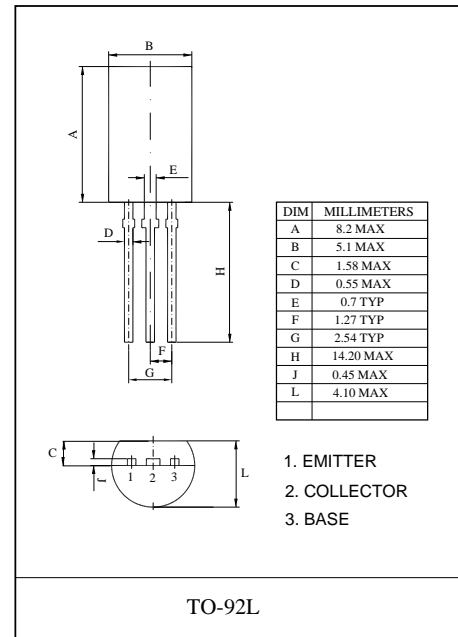
FTC2316 TRANSISTOR (NPN)

FEATURES

Driver Stage Amplifier
Complement to FTA916

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

Symbol	Parameter	Value	Unit
V _{CB0}	Collector-Base Voltage	120	V
V _{CE0}	Collector-Emitter Voltage	120	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current -Continuous	800	mA
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 =1mA, I _E =0	120			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =10mA, I _B =0	120			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =1mA, I _C =0	5			V
Collector cut-off current	I _{CB0}	V _{CB} =120V, I _E =0			0.1	µA
DC current gain	h _{FE(1)}	V _{CE} =5V, I _C =10mA	60			
	h _{FE(2)}	V _{CE} =5V, I _C =100mA	80		240	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =500mA, I _B =50mA			1	V
Transition frequency	f _T	V _{CE} =5V, I _C =100mA		120		MHz
Collector output capacitance	C _{ob}	V _{CB} =10V, I _E =0, f=1MHz			30	pF

CLASSIFICATION OF h_{FE(2)}

Rank	O	Y
Range	80-160	120-240

Typical Characteristics

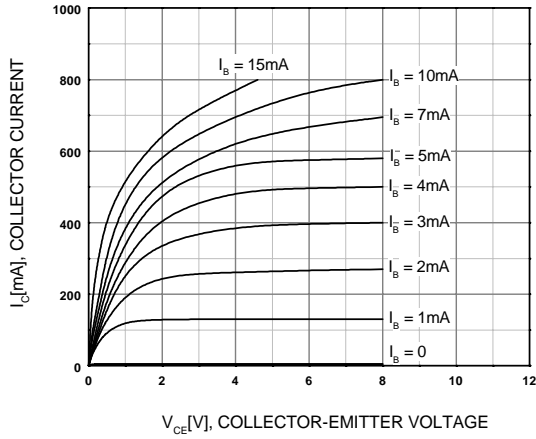


Figure 1. Static Characteristic

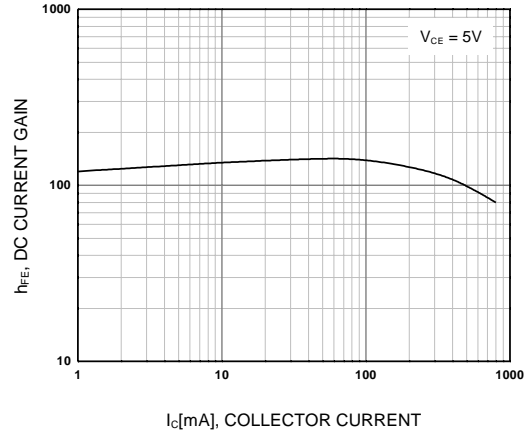


Figure 2. DC current Gain

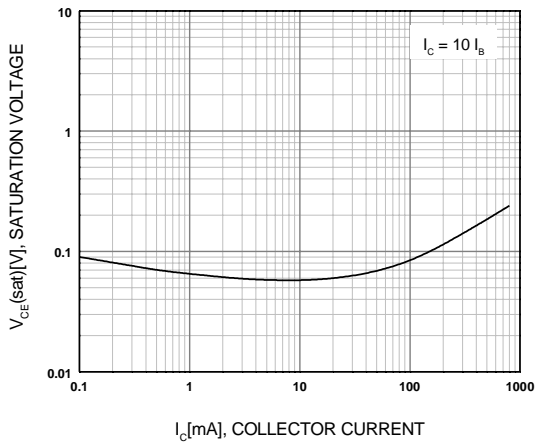


Figure 3. Collector-Emitter Saturation Voltage

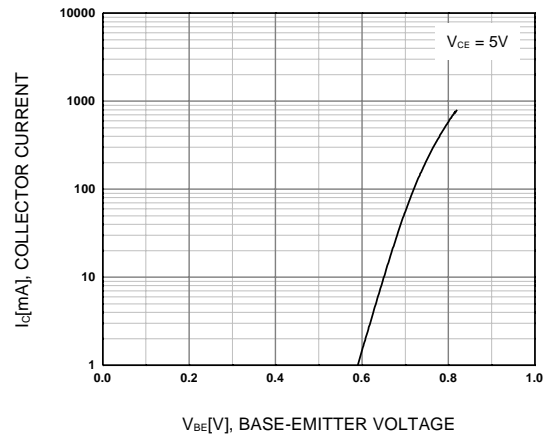


Figure 4. Base-Emitter On Voltage

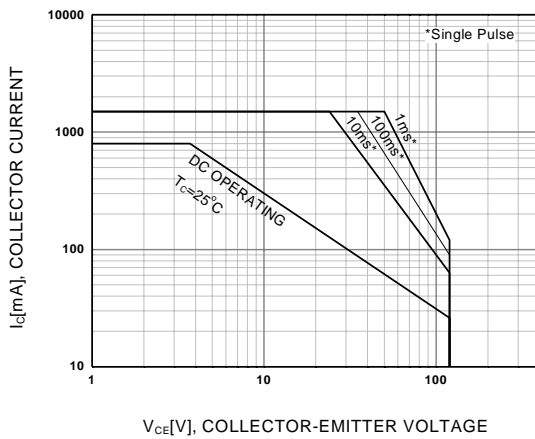


Figure 5. Safe Operating Area