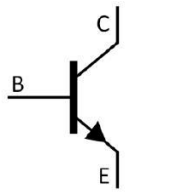
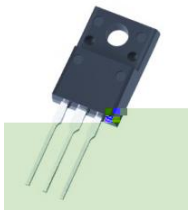
TO-220F NPN Silicon NPN transistor in a TO-220F Plastic Package.

, 3CA1837
High f_T, complementary pair with 3CA1837.

General power and driver stage amplifier applications.





PIN1 Base PIN 2 Collector PIN 3 Emitter

/ h_{FE}Av€q€Ap™

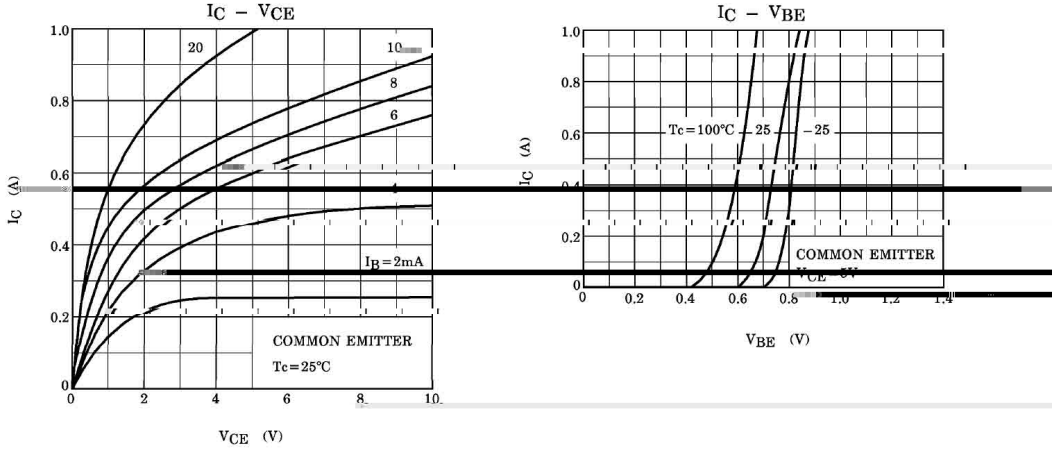
/ Absolute Maximum Ratings(Ta=25)

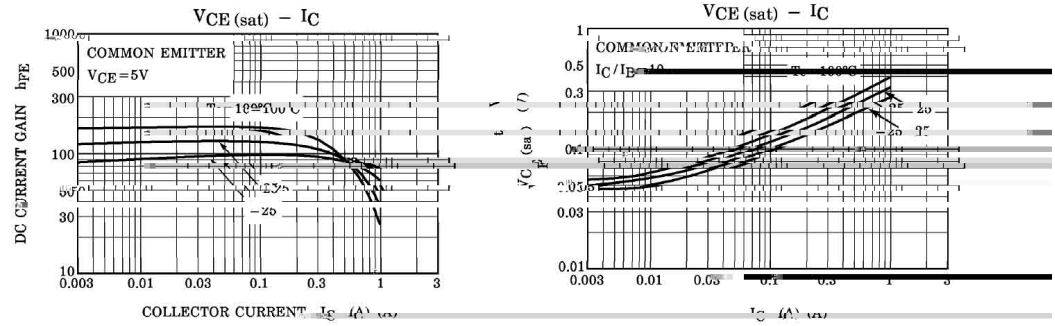
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	230	V
Collector to Emitter Voltage	V_{CEO}	230	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current - Continuous	I_C	1.0	A
Base Current - Continuous	I_B	0.1	A
Collector Power Dissipation	P_C	2.0	W
	$P_{C(Tc=25\ )}$	20	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

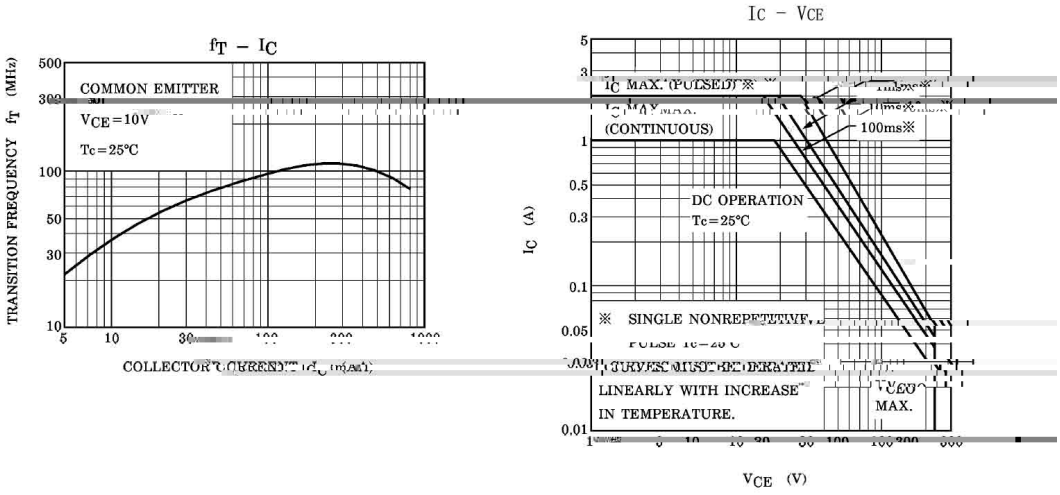
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Emitter Breakdown Voltage	V_{CEO}	I_C=10mA I_B=0	230			V
Collector Cut-Off Current	I_{CBO}	V_{CB}=230V I_E=0			1.0	μA
Emitter Cut-Off Current	I_{EBO}	V_{EB}=5.0V I_C=0			1.0	μA
DC Current Gain	h_{FE}	V_{CE}=5.0V I_C=100mA	100		320	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=500mA I_B=50mA			1.5	V
Base to Emitter Voltage	V_{BE}	V_{CE}=5.0V I_C=500mA			1.0	V
Transition Frequency	f_T	V_{CE}=10V I_C=100mA		100		MHz
Collector output capacitance	C_{ob}	V_{CB}=10V I_E=0 f=1.0MHz		20		pF

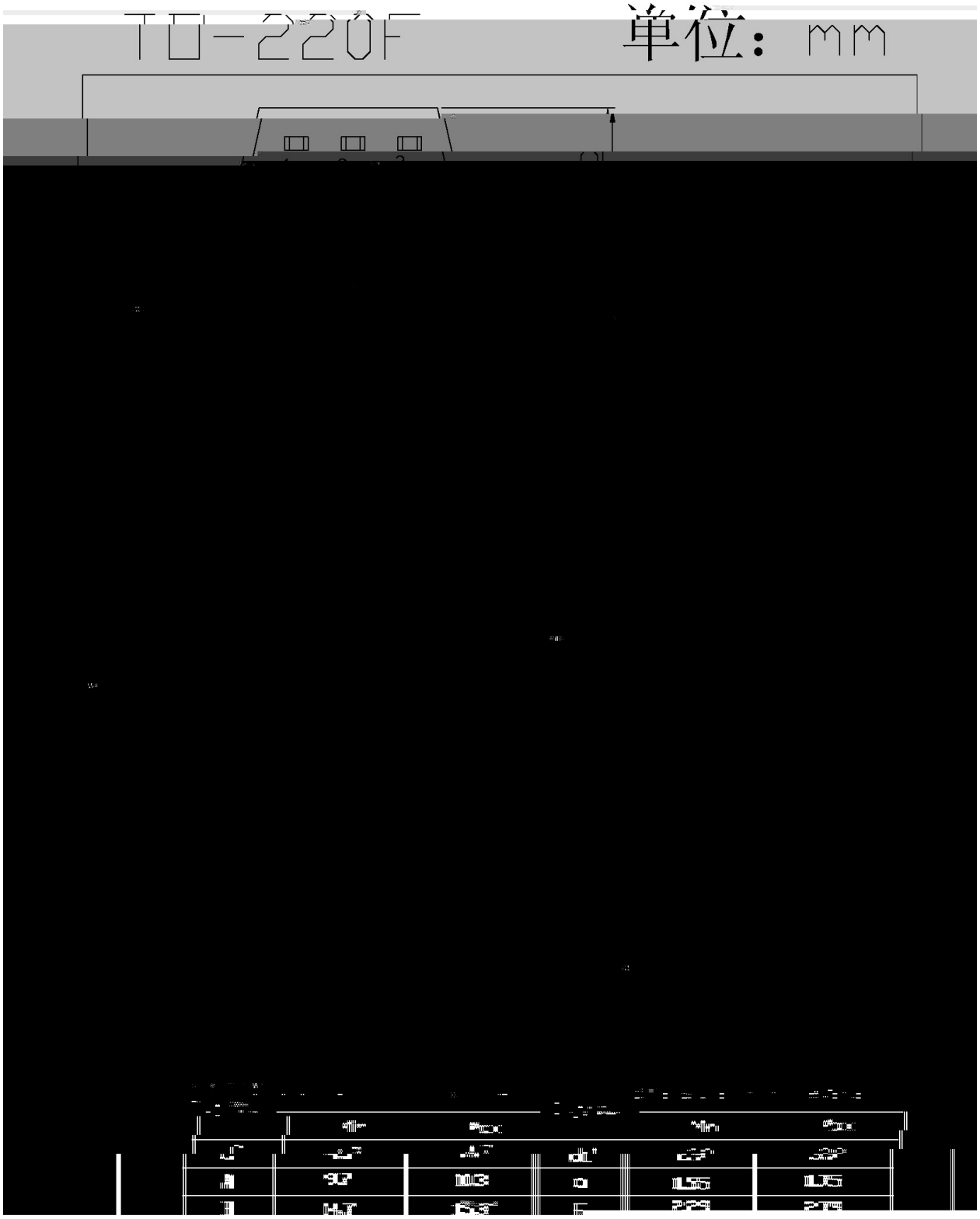
/ Electrical Characteristic Curve







/ Package Dimensions



3DA4793
Rev.F Mar.-2016