

/ Descriptions

Silicon NPN transistor in a TO-126F Plastic Package.

/ Features

High V_{CEO} .

/ Applications

Color TV chroma output applications.

/ Equivalent Circuit



/ Pinning



PIN1 Emitter PIN 2 Collector PIN 3 Base

/ h_{FE} Classifications & Marking

h_{FE} Classifications Symbol	C	D	E
h_{FE} Range	40 80	60 120	100 200

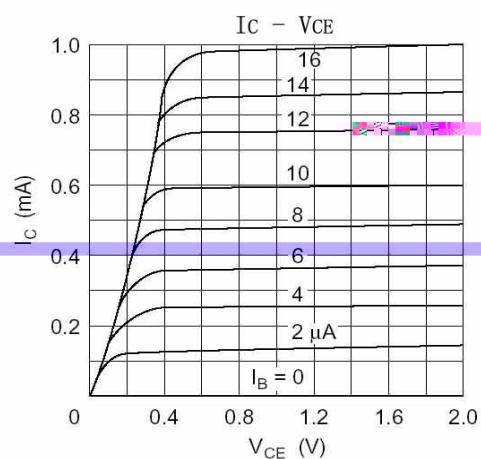
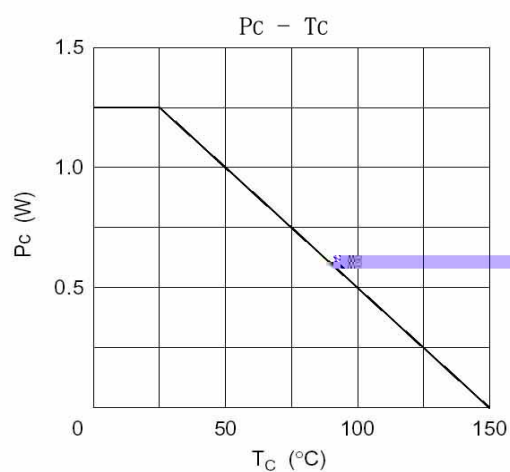
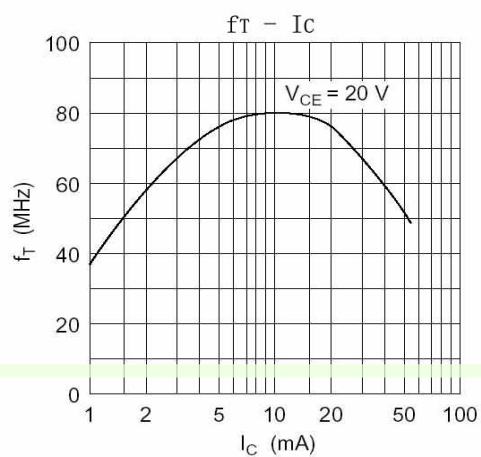
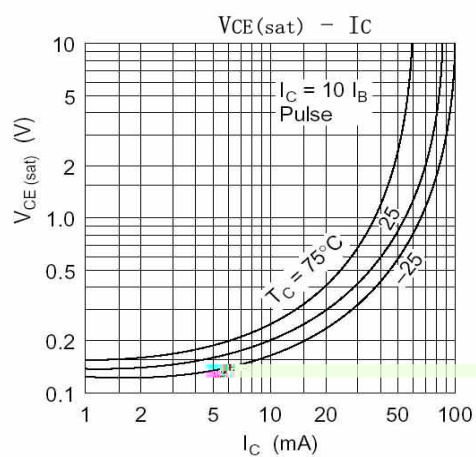
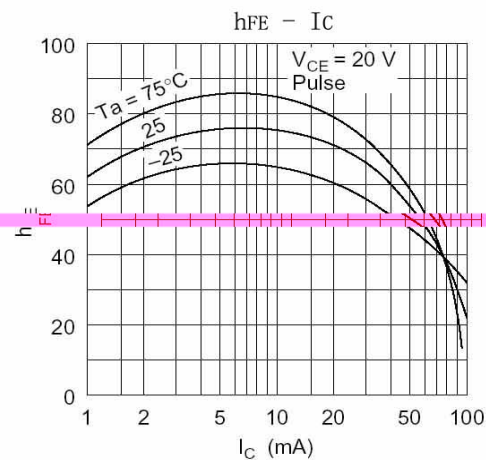
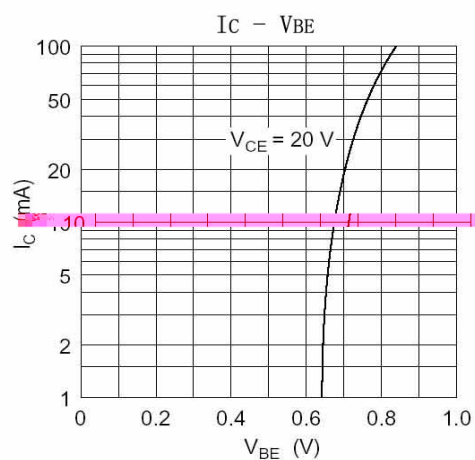
/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	300	V
Collector to Emitter Voltage	V_{CEO}	300	V
Emitter to Base Voltage	V_{EBO}	6.5	V
Collector Current - Continuous	I_C	200	mA
Collector Current – Continuous(Pulse)	I_{CP}	700	mA
Collector Power Dissipation	P_C	1.2	W
Collector Power Dissipation	$P_C(T_c=25^{\circ}C)$	10	W
Junction Temperature	T_j	150	$^{\circ}C$
Storage Temperature Range	T_{stg}	-55 150	$^{\circ}C$

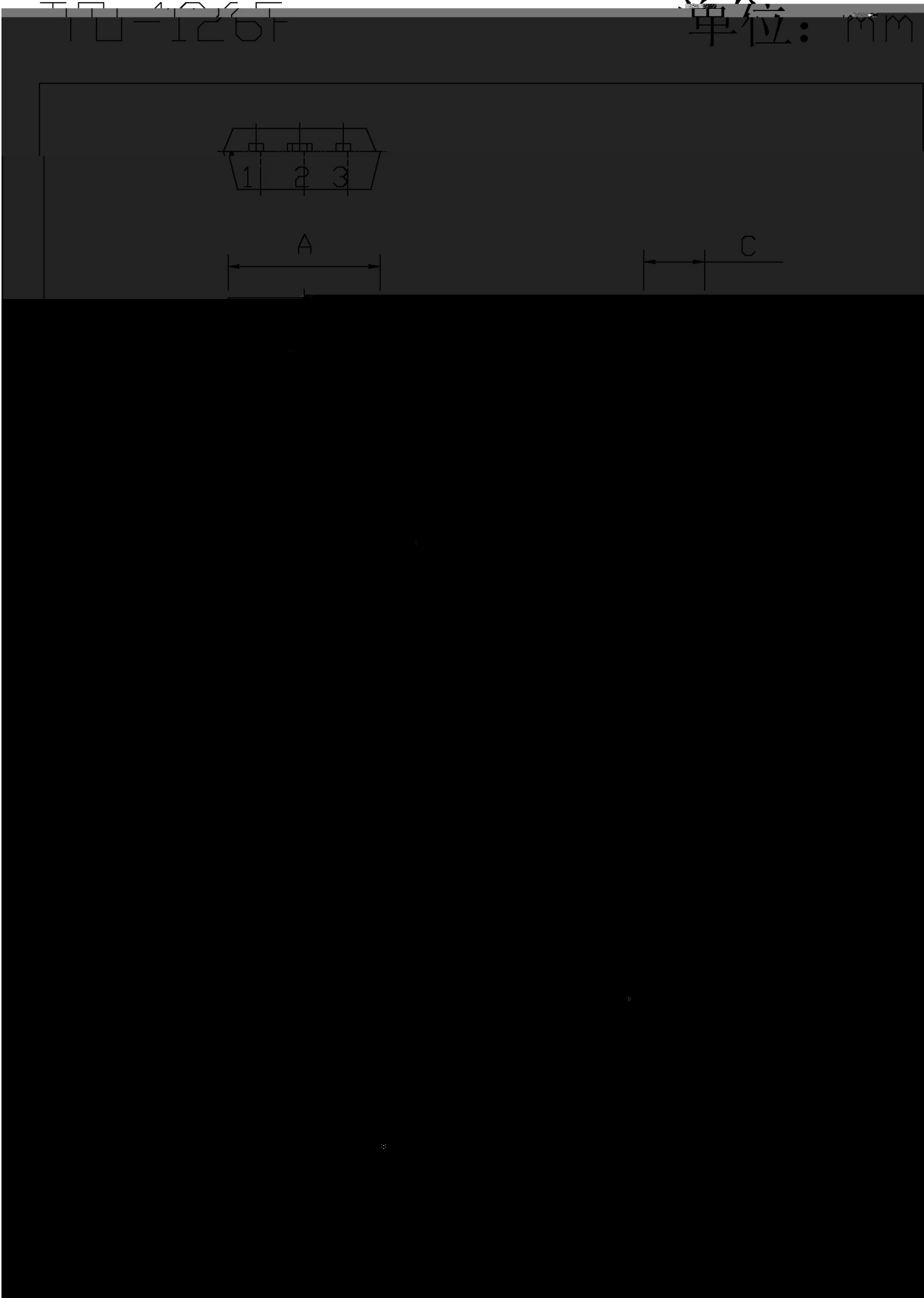
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I_{CBO}	$V_{CB}=200V$ $I_E=0$			1.0	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=6.0V$ $I_C=0$			1.0	μA
DC Current Gain	h_{FE}	$V_{CE}=10V$ $I_C=10mA$	40		200	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=20mA$ $I_B=2.0mA$			0.6	V
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=20mA$ $I_B=2.0mA$			1.0	V
Transition Frequency	f_T	$V_{CE}=30V$ $I_C=10mA$	50			MHz
Reverse Transfer Capacitance	C_{ob}	$V_{CB}=50V$ $I_E=0$ $f=1.0MHz$			5.0	pF

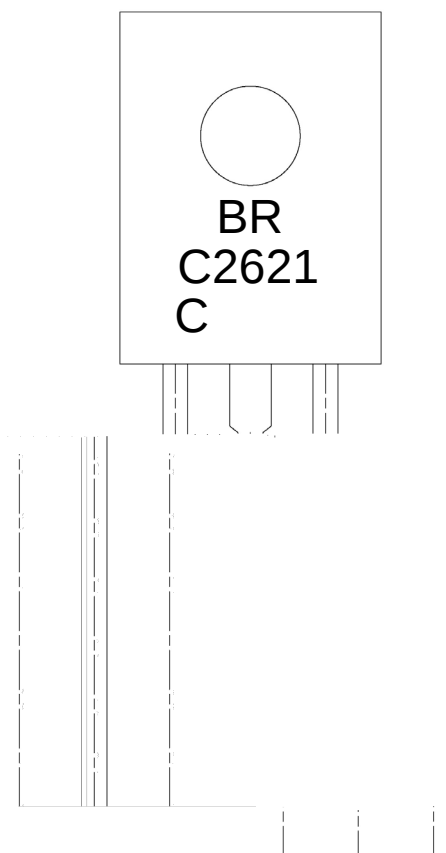
/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions



Note:

BR: Company Code

C2621: Product Type.

C: h_{FE} Classifications Symbol

***: Lot No. Code, code change with Lot No.

