/ Descriptions

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

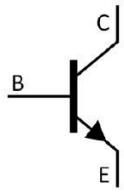
/ Features

High breakdown voltage, excellent high frequency Characteristic.

/ Applications

High-definition CRT display, color TV chroma output and high breakdown voltage driver.

/ Equivalent Circuit



/ Pinning

PIN1 Emitter PIN 2 Collector PIN 3 Base

/ h_{FE} Classifications & Marking

h_{FE} Classifications Symbol	C	O	E	F
h_{FE} Range	40 80	60 120	100 200	160 320

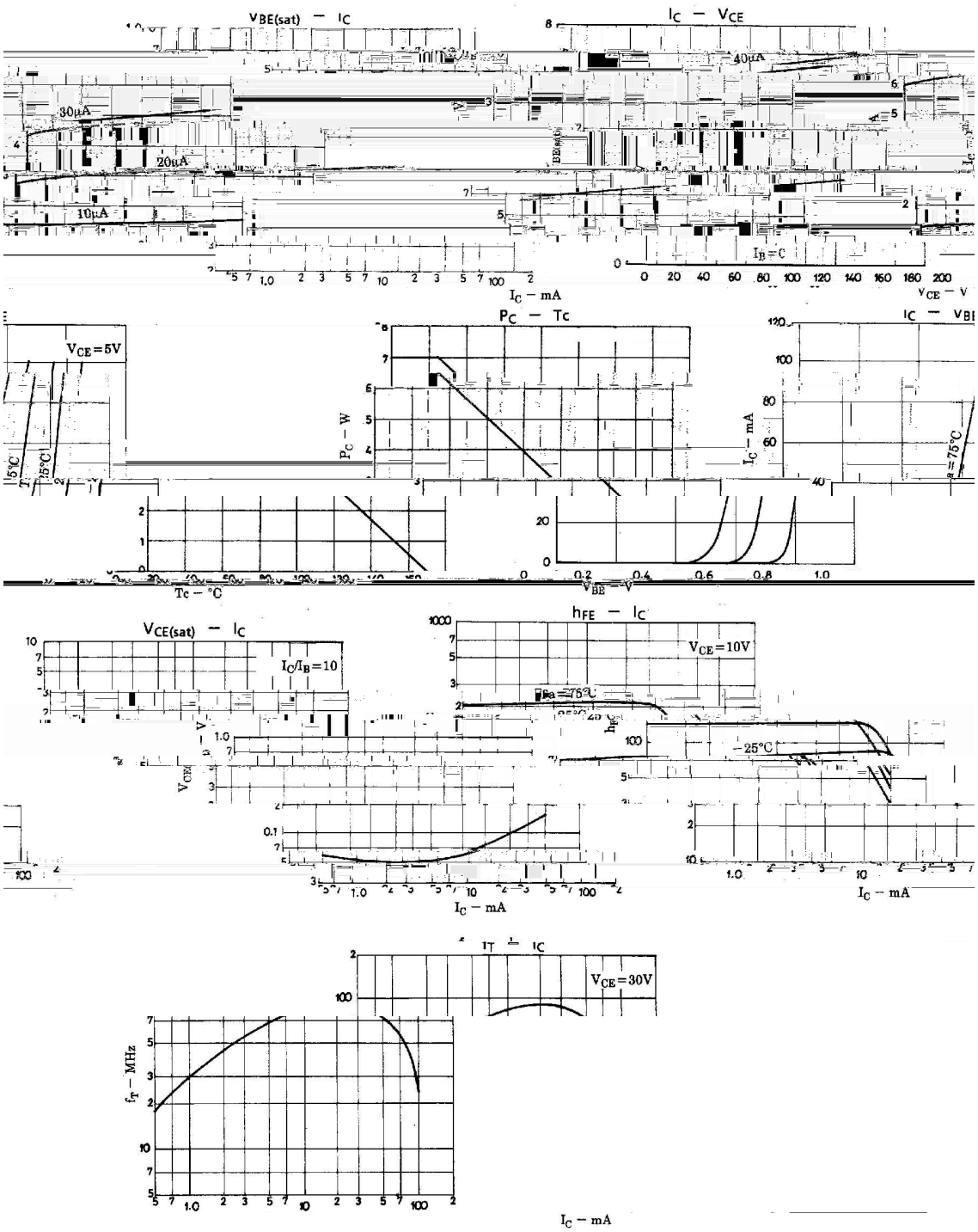
/ Absolute Maximum Ratings(Ta=25)

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}	5.0	V
Collector Current - Continuous	I_C	100	mA
Collector Current – Continuous(Pulse)	I_{cp}	200	mA
Collector Power Dissipation	P_C	1.2	W
Collector Power Dissipation	P_C(Tc=25)	7.0	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

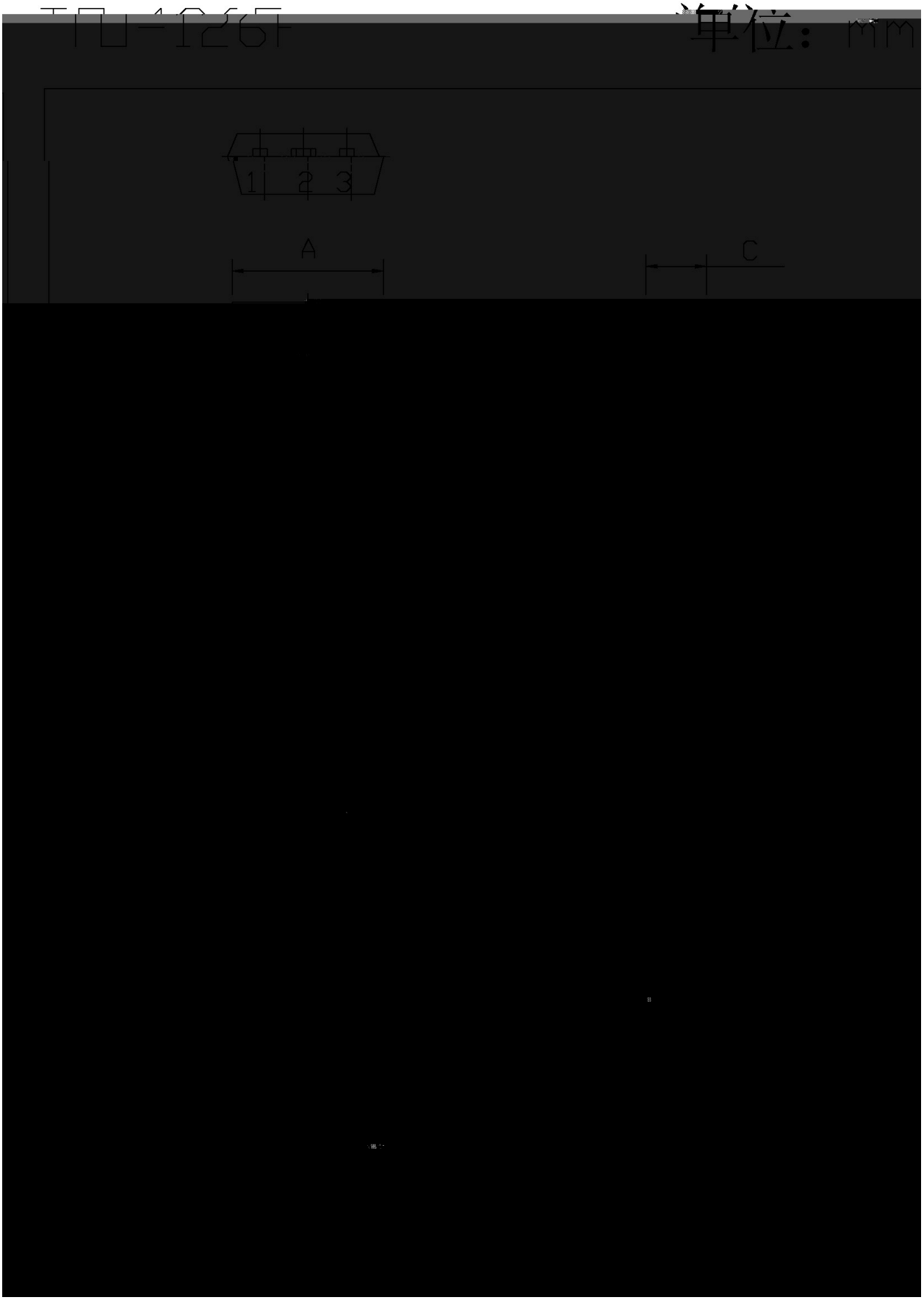
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	I_C=10μA I_E=0	300			V
Collector to Emitter Breakdown Voltage	V_{CEO}	I_C=1.0mA I_B=0	300			V
Emitter to Base Breakdown Voltage	V_{EBO}	I_E=10μA I_C=0	5.0			V
Collector Cut-Off Current	I_{CBO}	V_{CB}=200V I_E=0			0.1	μA
Emitter Cut-Off Current	I_{EBO}	V_{EB}=4.0V I_C=0			0.1	μA
DC Current Gain	h_{FE}	V_{CE}=10V I_C=10mA	40		320	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=20mA I_B=2.0mA			0.6	V
Base to Emitter Voltage	$V_{BE(sat)}$	I_C=20mA I_B=2.0mA			1.0	V
Transition Frequency	f_T	V_{CE}=30V I_C=10mA		70		MHz
Collector Output Capacitance	C_{ob}	V_{CB}=30V I_E=0 f=1.0MHz		2.6		pF
Reverse Transfer Capacitance	C_{re}	V_{CB}=30V f=1.0MHz		1.8		pF

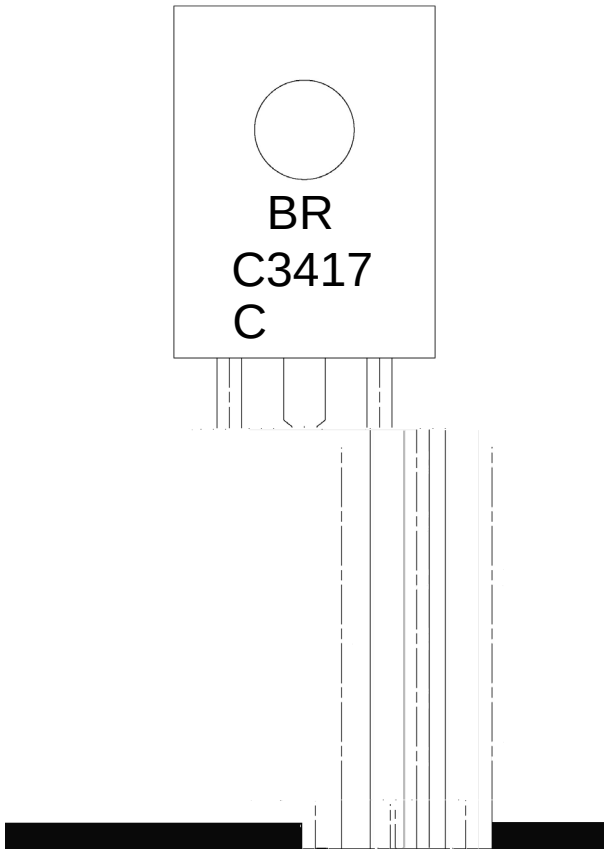
/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions



Note:

BR:	Company Code
C3417:	Product Type.
C:	h_{FE} Classifications Symbol
****:	Lot No. Code, code change with Lot No.

( ) / Temperature Profile for Dip Soldering(Pb-Free)

	Note:
1 25 150 60 90sec;	1.Preheating:25~150 , Time:60~90sec.
2 255 5 5 0.5sec;	2.Peak Temp.:255 5 , Duration:5 0.5sec.
3 2 10 /sec.	3. Cooling Speed: 2~10 /sec.

/ Resistance to Soldering Heat Test Conditions

270 5 10 1 sec. Temp.:270±5 Time:10±1 sec

/ Packaging SPEC.

/ BULK

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm^3)		
	只 套管	套管 盒	只 盒	盒 箱	只 箱	套管	盒	箱

/ TUBE

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm^3)		
	只 套管	套管 盒	只 盒	盒 箱	只 箱	套管	盒	箱

/ Notices