

/ Descriptions

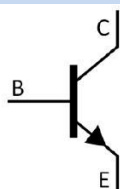
Silicon NPN transistor in a TO-92LM Plastic Package.

/ Features

High V_{CEO} , high f_T ; Complementary pair with 2SA879(A).

/ Applications

General amplifier and video frequency output in small screen TV.

/ Equivalent Circuit**/ Pinning**

PIN1 Base PIN 2 Collector PIN 3 Emitter

/ h_{FE} Classifications & Marking

h_{FE} Classifications Symbol	P	Q	R
h_{FE} Range	30~100	60~150	100~220

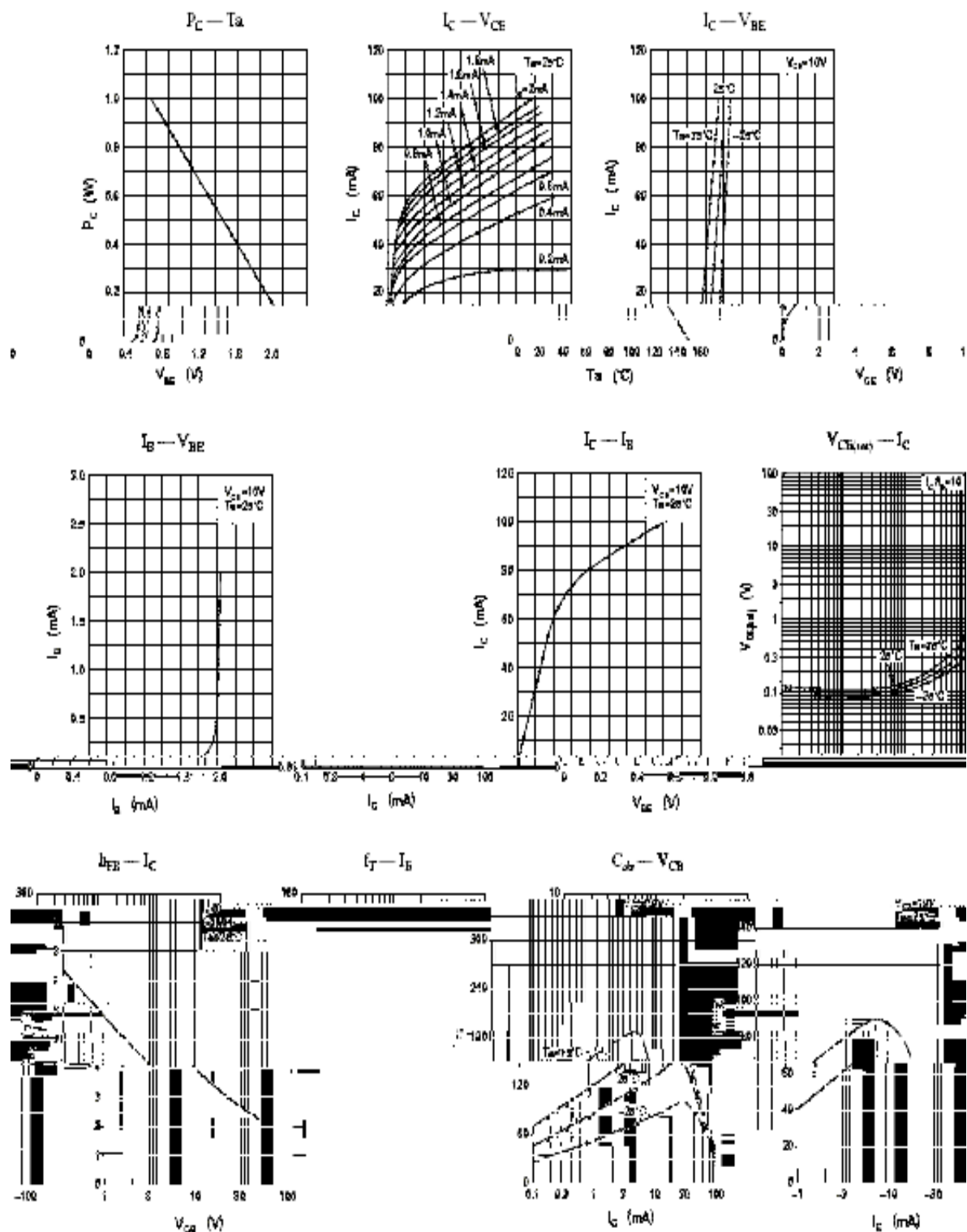
/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	2SC1573 250	V
		2SC1573A 300	
Collector to Emitter Voltage	V_{CEO}	2SC1573 250	V
		2SC1573A 300	
Emitter to Base Voltage	V_{EBO}	7.0	V
Collector Current - Continuous	I_C	70	mA
Collector Current – Continuous(Pulse)	I_{CP}	100	mA
Collector Power Dissipation	P_C	1.0	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 Emitter Breakdown Voltage	V_{CEO}	$I_C=100\text{ A}$ $I_B=0$	250			V
			300			
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E=1.0\text{ A}$ $I_C=0$	7.0			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=120V$ $I_E=0$			2.0	A
DC Current Gain	h_{FE}	$V_{CE}=10V$ $I_C=5.0mA$	30		220	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=50mA$ $I_B=5.0mA$			1.2	V
Base to Emitter Voltage	f_T	$V_{CE}=10V$ $I_C=10mA$	50	80		MHz
Transition Frequency	V_{EBO}	$I_E=1.0\text{ A}$ $I_C=0$	7.0			V
Collector output capacitance	C_{ob}	$V_{CB}=10V$ $I_E=0$ $f=1.0MHz$		5.0	10	pF
				4.0	8.0	

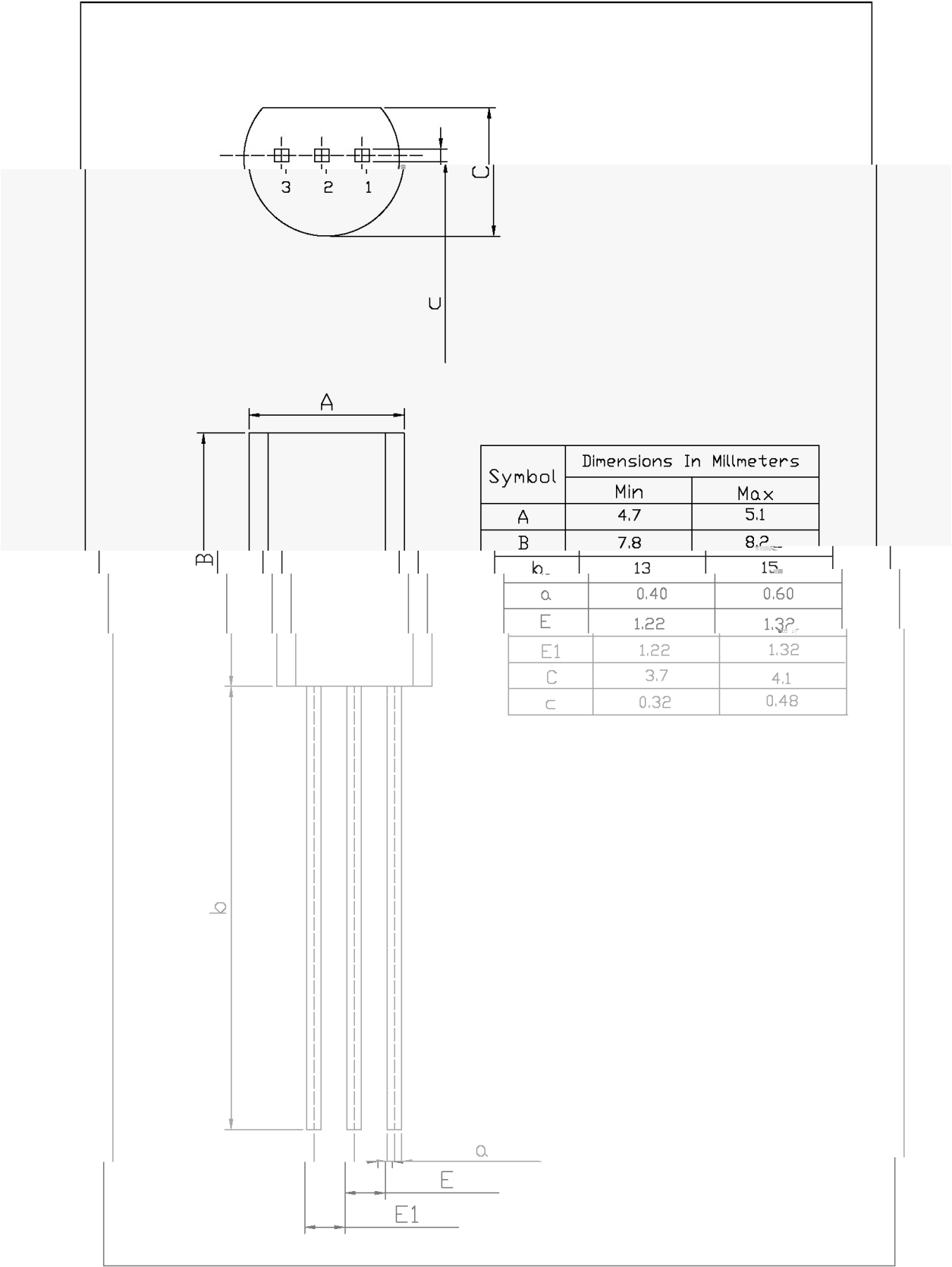
/ Electrical Characteristic Curve



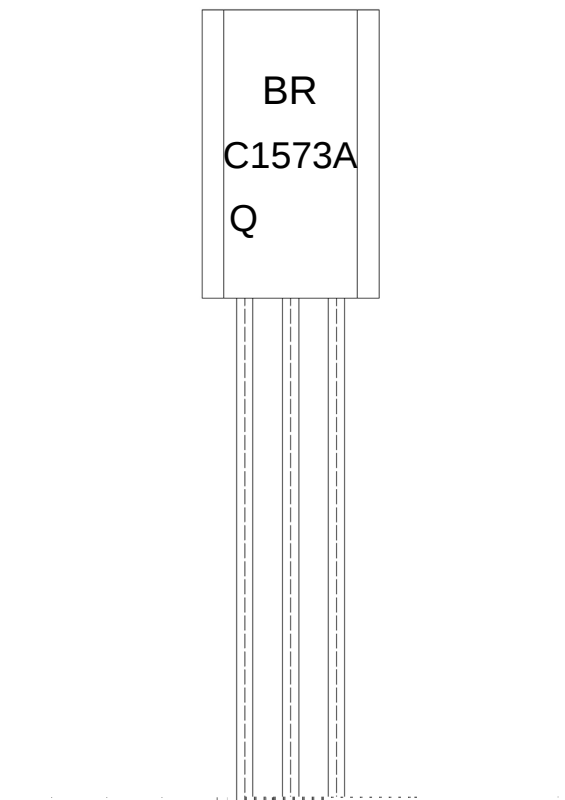
/ Package Dimensions

T0-92LM

Unit: mm



/ Marking Instructions



Note:

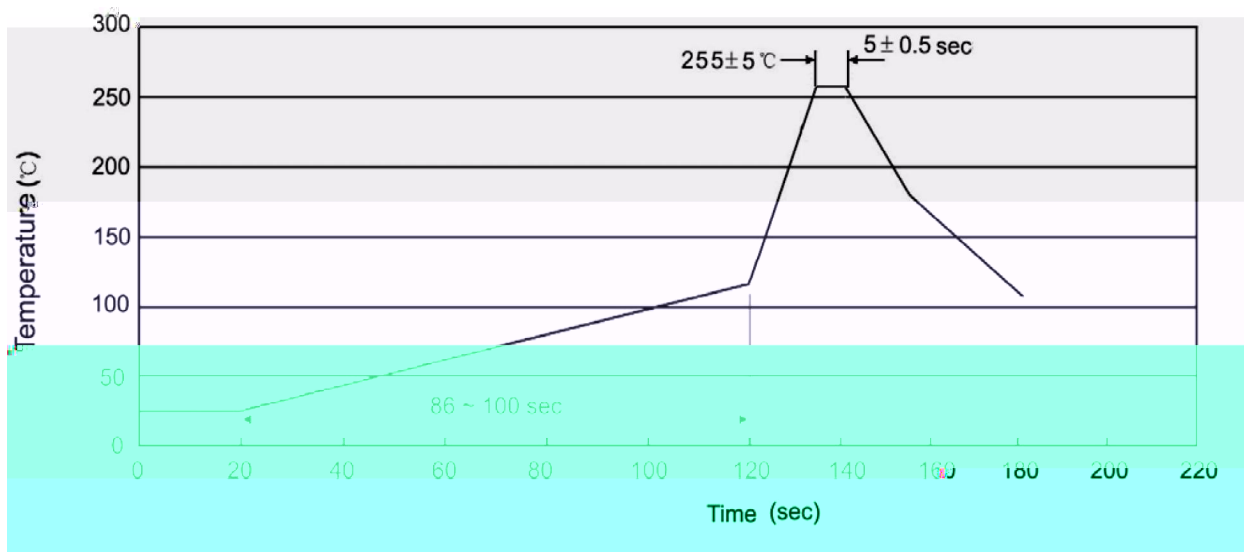
BR: Company Code.

C1573A: Product Type.

Q: 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;
- 2 255 5 5 0.5sec;
- 3 2 10 /sec.

- 1.Preheating:25~150 , Time:60~90sec.
- 2.Peak Temp.:255 5 , Duration:5 0.5sec.
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	Units					Dimension		(unit mm3)

/ AMMO

Package Type	Units					Dimension		(unit mm3)