

**/ Descriptions**

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

**/ Features**

High  $V_{CE0}$ , 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

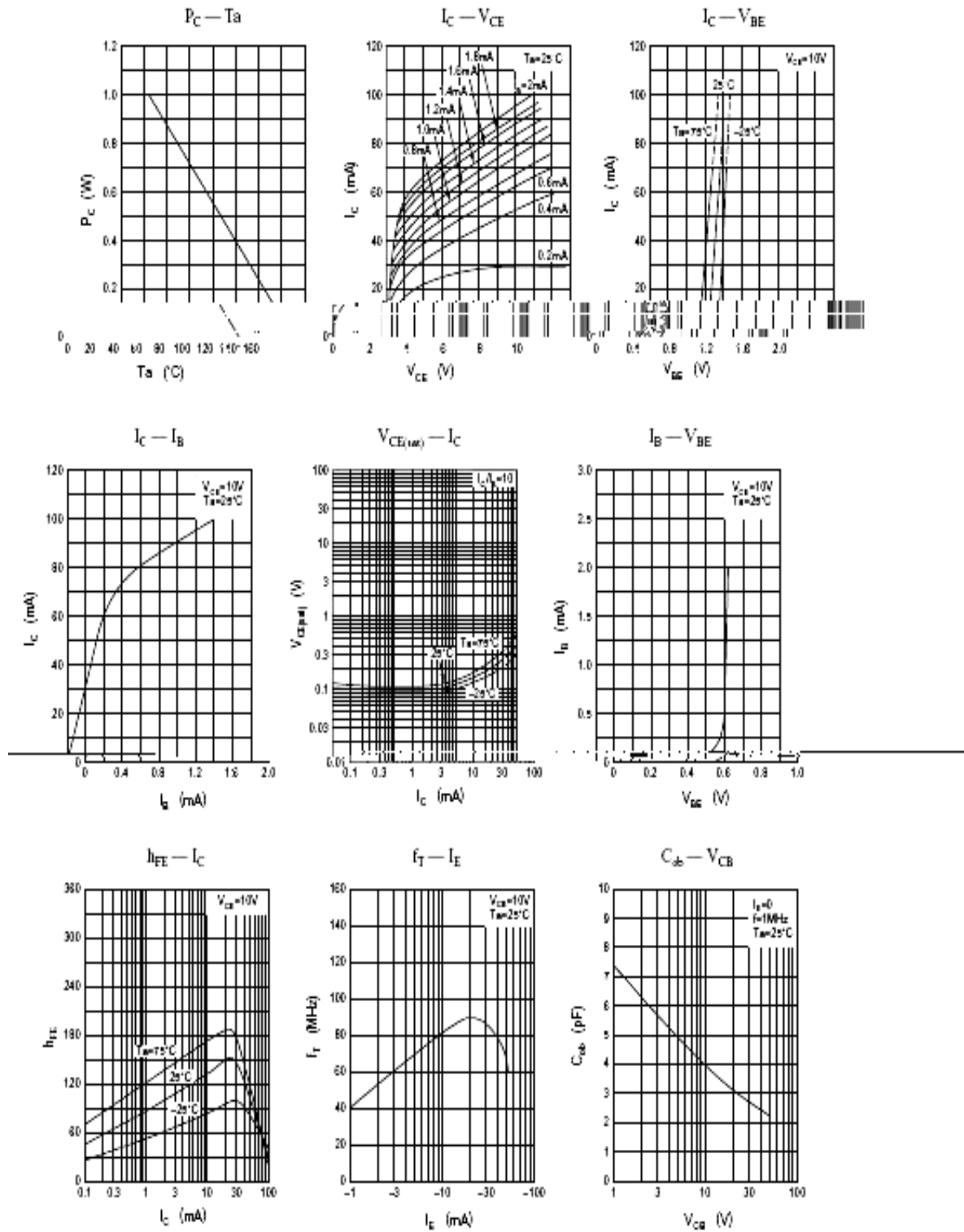
**/ Absolute Maximum Ratings(Ta=25 )**

Parameter	Symbol	Rating	Unit	
Collector to Base Voltage	V <sub>CBO</sub>	2SC1573	250	V
		2SC1573A	300	
Collector to Emitter Voltage	V <sub>CEO</sub>	2SC1573	250	V
		2SC1573A	300	
Emitter to Base Voltage	V <sub>EBO</sub>	7.0	V	
Collector Current - Continuous	I <sub>C</sub>	70	mA	
Collector Current – Continuous(Pulse)	I <sub>CP</sub>	100	mA	
Collector Power Dissipation	P <sub>C</sub>	1.0	W	
Junction Temperature	T <sub>j</sub>	150		
Storage Temperature Range	T <sub>stg</sub>	-55 150		

**/ Electrical Characteristics(Ta=25 )**

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Emitter Breakdown Voltage	V <sub>CEO</sub>	I <sub>C</sub> =100 A I <sub>B</sub> =0	250			V
			300			
Emitter to Base Breakdown Voltage	V <sub>EBO</sub>	I <sub>E</sub> =1.0 A I <sub>C</sub> =0	7.0			V
Collector Cut-Off Current	I <sub>CBO</sub>	V <sub>CB</sub> =120V I <sub>E</sub> =0			2.0	A
DC Current Gain	h <sub>FE</sub>	V <sub>CE</sub> =10V I <sub>C</sub> =5.0mA	30		220	
Collector to Emitter Saturation Voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =50mA I <sub>B</sub> =5.0mA			1.2	V
Base to Emitter Voltage	f <sub>T</sub>	V <sub>CE</sub> =10V I <sub>C</sub> =10mA	50	80		MHz
Transition Frequency	V <sub>EBO</sub>	I <sub>E</sub> =1.0 A I <sub>C</sub> =0	7.0			V
Collector output capacitance	C <sub>ob</sub>	V <sub>CB</sub> =10V I <sub>E</sub> =0 f=1.0MHz		5.0	10	pF
				4.0	8.0	

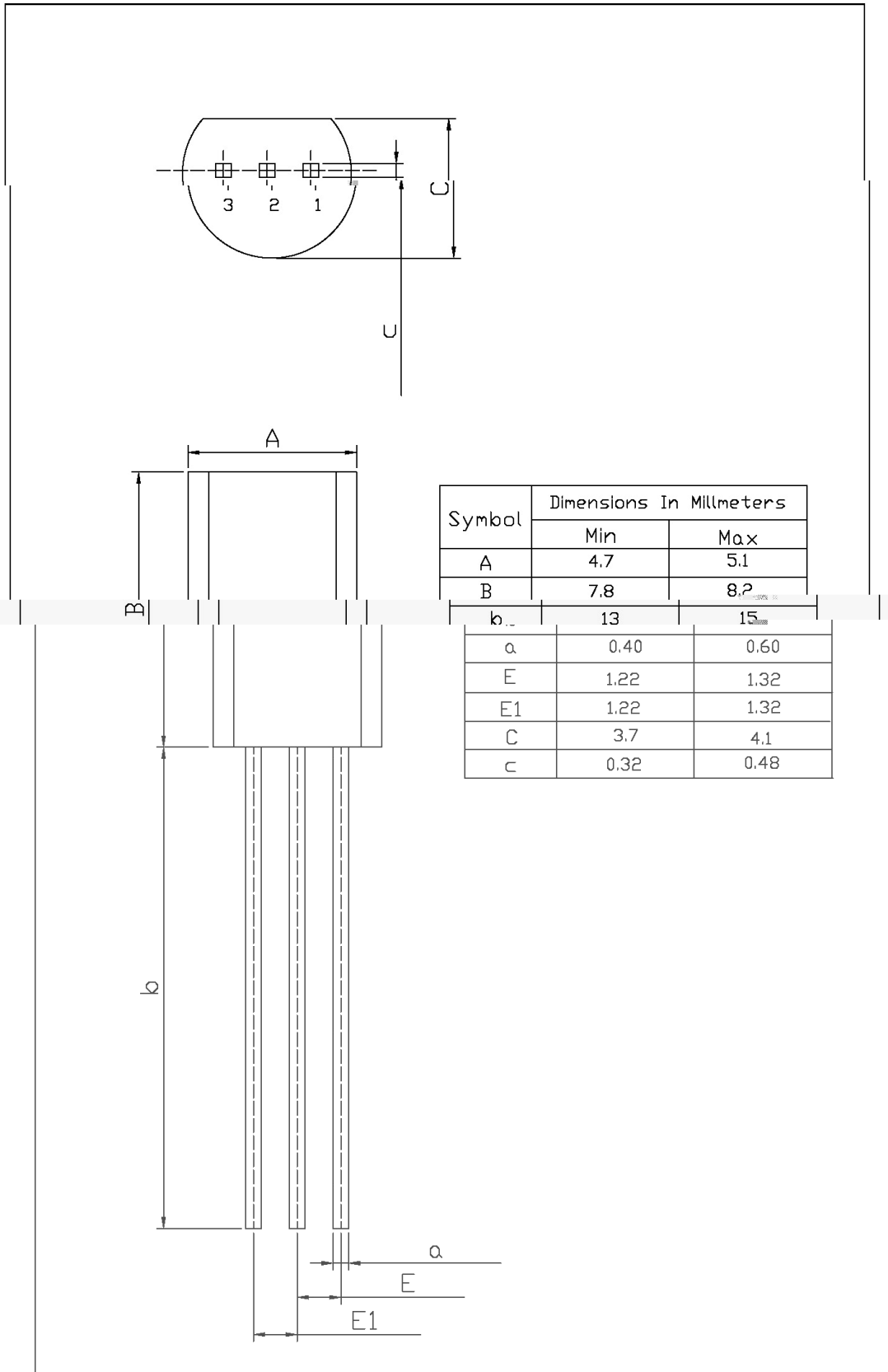
/ Electrical Characteristic Curve



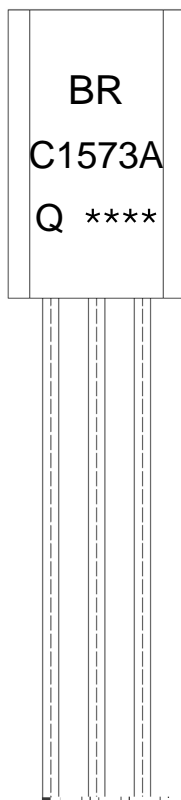
/ Package Dimensions

TO-92LM

Unit: mm



/ Marking Instructions



Note:

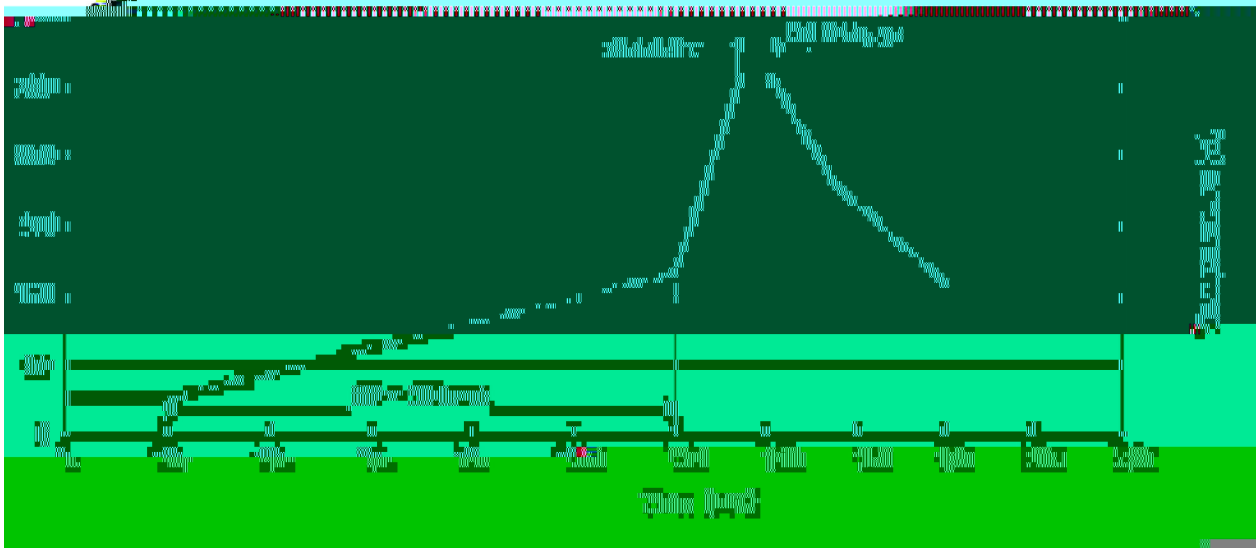
BR: Company Code.

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;   | 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	Units					Dimension (unit mm3)		
	Units/Bag /	Bags/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Bag	Inner Box	Outer Box
TO-92LM	1,000	8	8,000	5	40,000	135×190	237×172×102	560×245×195

/ AMMO

Package Type	Units					Dimension (unit mm3)	
	Units/tape /	Tape/Inner Box /	Rows/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Inner Box	Outer Box
TO-92LM	2,500	1	100	10	25,000	328×230×42	480×346×235 547×407×268