

/ Descriptions

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

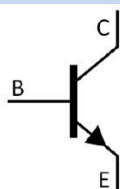
/ Features

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

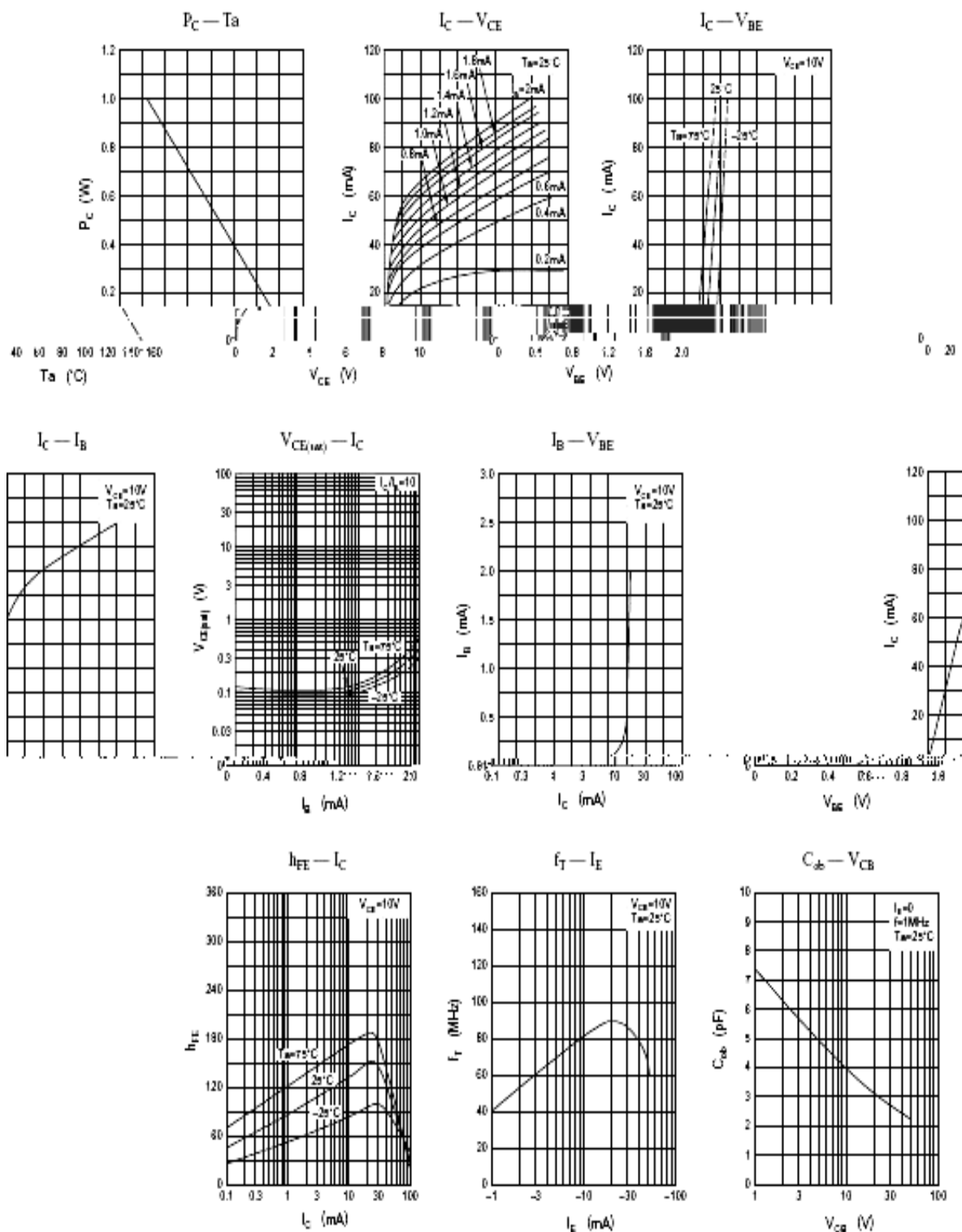
/ Absolute Maximum Ratings(Ta=25)

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}	2SC1573	$I_C=100\mu A \quad I_B=0$	250			V
		2SC1573A		300			
Emitter to Base Breakdown Voltage	V_{EBO}		$I_E=1.0\mu A \quad I_C=0$	7.0			V
Collector Cut-Off Current	I_{CBO}		$V_{CB}=120V \quad I_E=0$			2.0	μA
DC Current Gain	h_{FE}		$V_{CE}=10V \quad I_C=5.0mA$	30		220	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$		$I_C=50mA \quad I_B=5.0mA$			1.2	V
Base to Emitter Voltage	f_T		$V_{CE}=10V \quad I_C=10mA$	50	80		MHz
Transition Frequency	V_{EBO}		$I_E=1.0\mu A \quad I_C=0$	7.0			V
Collector output capacitance	C_{ob}	2SC1573	$V_{CB}=10V \quad I_E=0$ $f=1.0MHz$		5.0	10	pF
		2SC1573A			4.0	8.0	

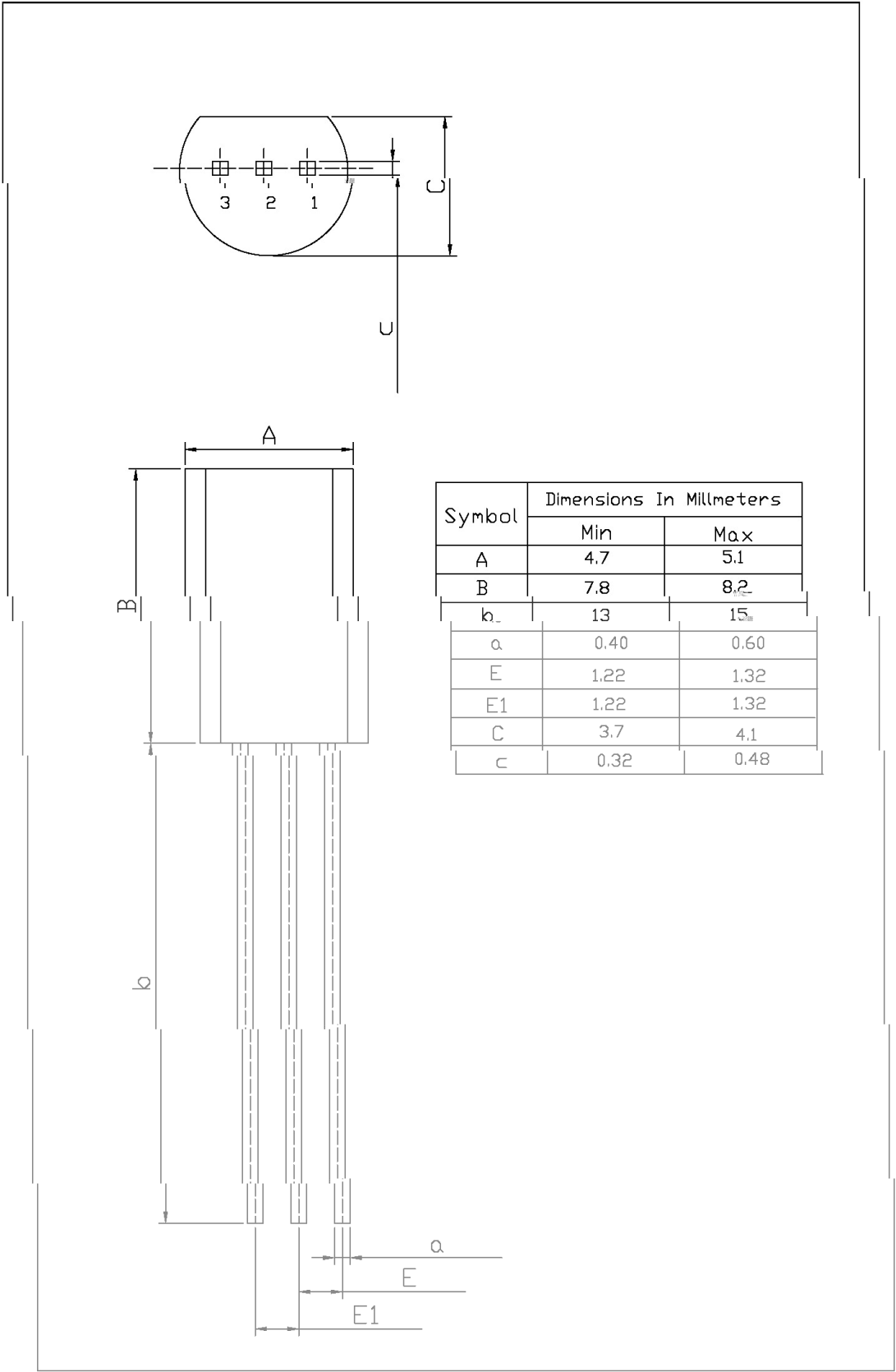
/ Electrical Characteristic Curve



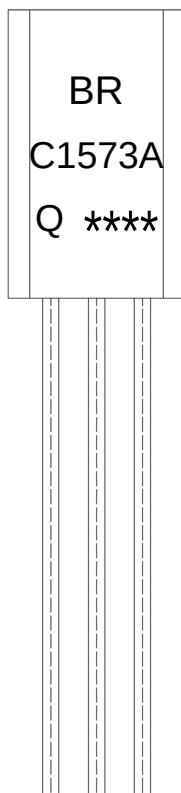
/ Package Dimensions

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; | 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