

**/ Descriptions**

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

**/ Features**

High collector-Base voltage.

**/ Applications**

Color TV chroma output.

**/ Equivalent Circuit**



**/ Pinning**



PIN1 Base          PIN 2 Collector          PIN 3 Emitter

**h**          **/ h<sub>FE</sub> Classifications & Marking**

h<sub>FE</sub> ClassiH

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	$V_{CBO}$	300	V
Collector to Emitter Voltage	$V_{CEO}$	300	V
Emitter to Base Voltage	$V_{EBO}$	7.0	V
Collector Current (DC)	$I_C$	100	mA
Collector Power Dissipation	$P_C$	1.0	W
Junction Temperature	$T_j$	150	
Storage Temperature Range	$T_{stg}$	-55 150	

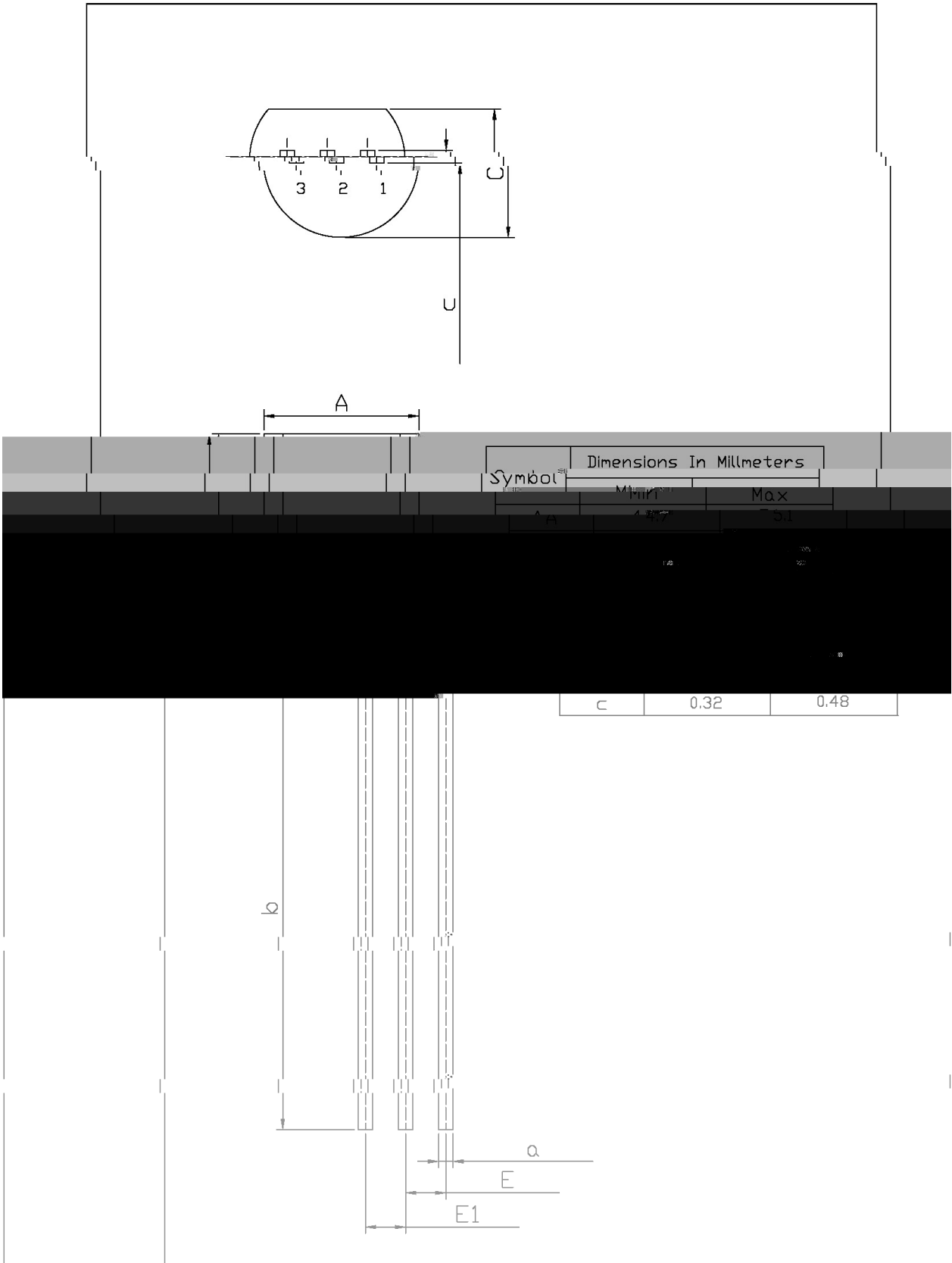
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	$V_{CBO}$	$I_C=100\mu A$ $I_E=0$	300			V
Collector to Emitter Breakdown Voltage	$V_{CEO}$	$I_C=5.0mA$ $I_B=0$	300			V
Emitter to Base Breakdown Voltage	$V_{EBO}$	$I_E=-100\mu A$ $I_C=0$	7.0			V
Collector Cut-Off Current	$I_{CBO}$	$V_{CB}=200V$ $I_E=0$			0.1	$\mu A$
DC Current Gain	$h_{FE}$	$V_{CE}=10V$ $I_C=20mA$	40		240	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=10mA$ $I$				

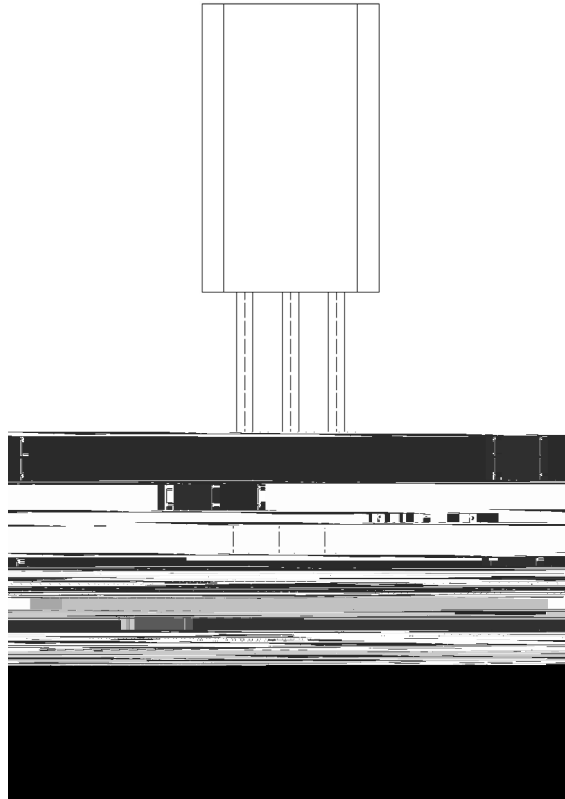
**/ Electrical Characteristic Curve**

**/ Package Dimensions**

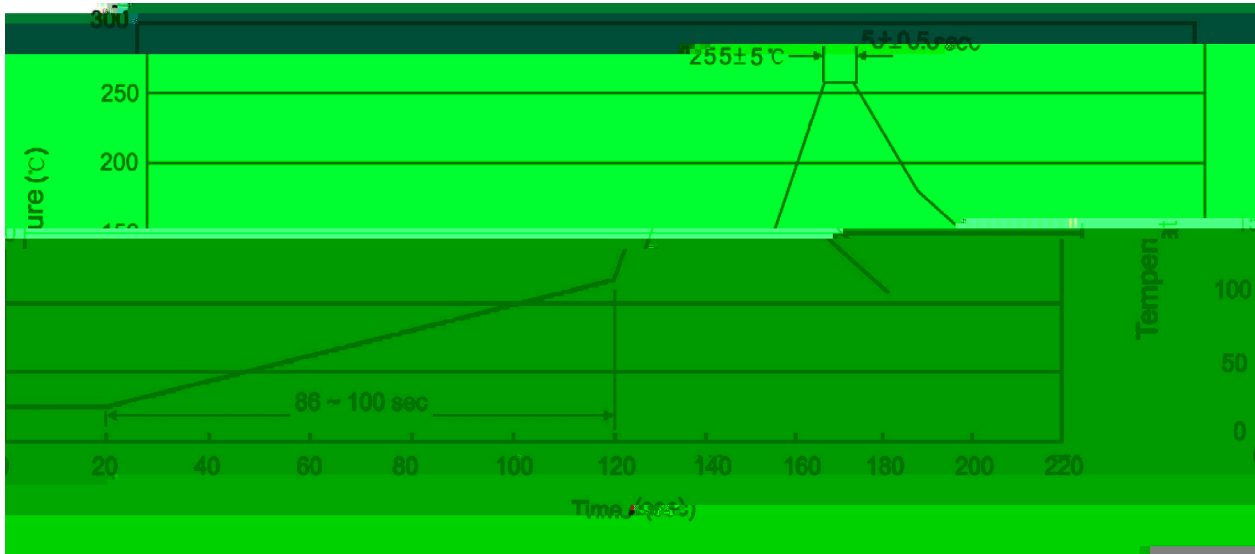
TO-92LM

Unit: mm





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



Note:

- |   |       |     |       |          |   |
|---|-------|-----|-------|----------|---|
| 1 | 25    | 150 | 60    | 90sec;   | 1.Preheating:25~150 , Time:60~90sec.    |
| 2 | 255±5 |     | 5±0.5 | sec;     | 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

/ Notices