

/ Descriptions

WR0<50 P QSQ Silicon NPN transistor in a TO-92LM Plastic Package.

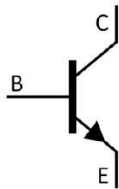
/ Features

/ 5VD9;7 5 6
Low $V_{CE(sat)}$, 2 3W output in complementary pair with 2SA684.

/ Applications

AF power amplifier and driver applications.

/ Equivalent Circuit



/ Pinning



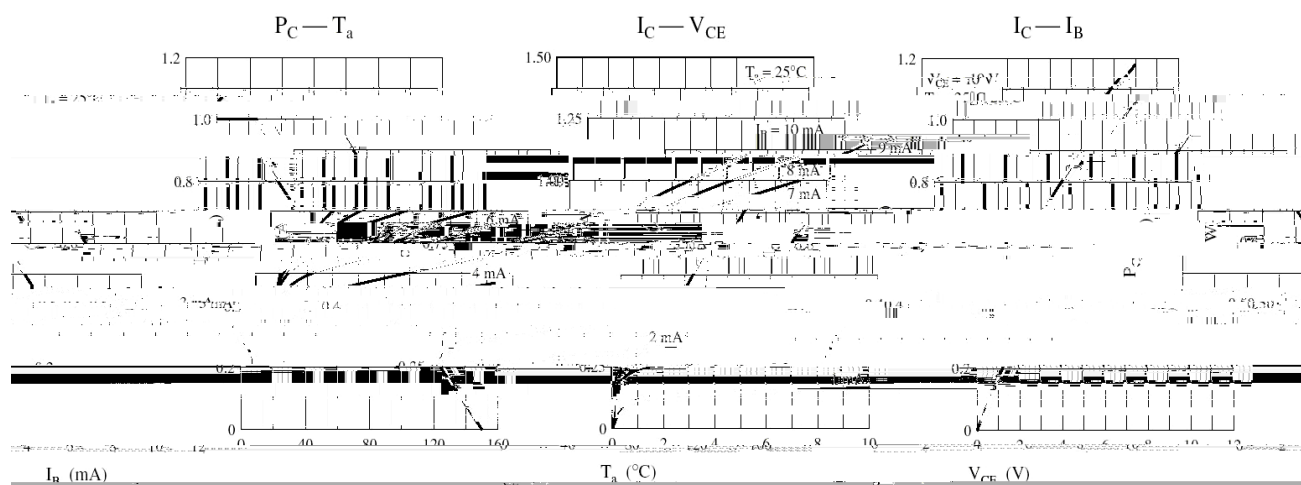
PIN1 Base PIN 2 Collector PIN 3 Emitter

/ h_{FE} Classifications & Marking

h_{FE} Classifications Symbol	Q	R	S
h_{FE} Range	85~170	120~240	170~340

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	60	V
Collector to Emitter Voltage	V_{CEO}	50	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current - Continuous	I_C	1.0	A
Collector Current – Continuous(Pulse)	I_{CP}	1.5	A
Collector Power Dissipation	P_C	1.0	W
Junction Temperature	T_J	150	
Storage Temperature Range	T_{stg}	-55 150	T'

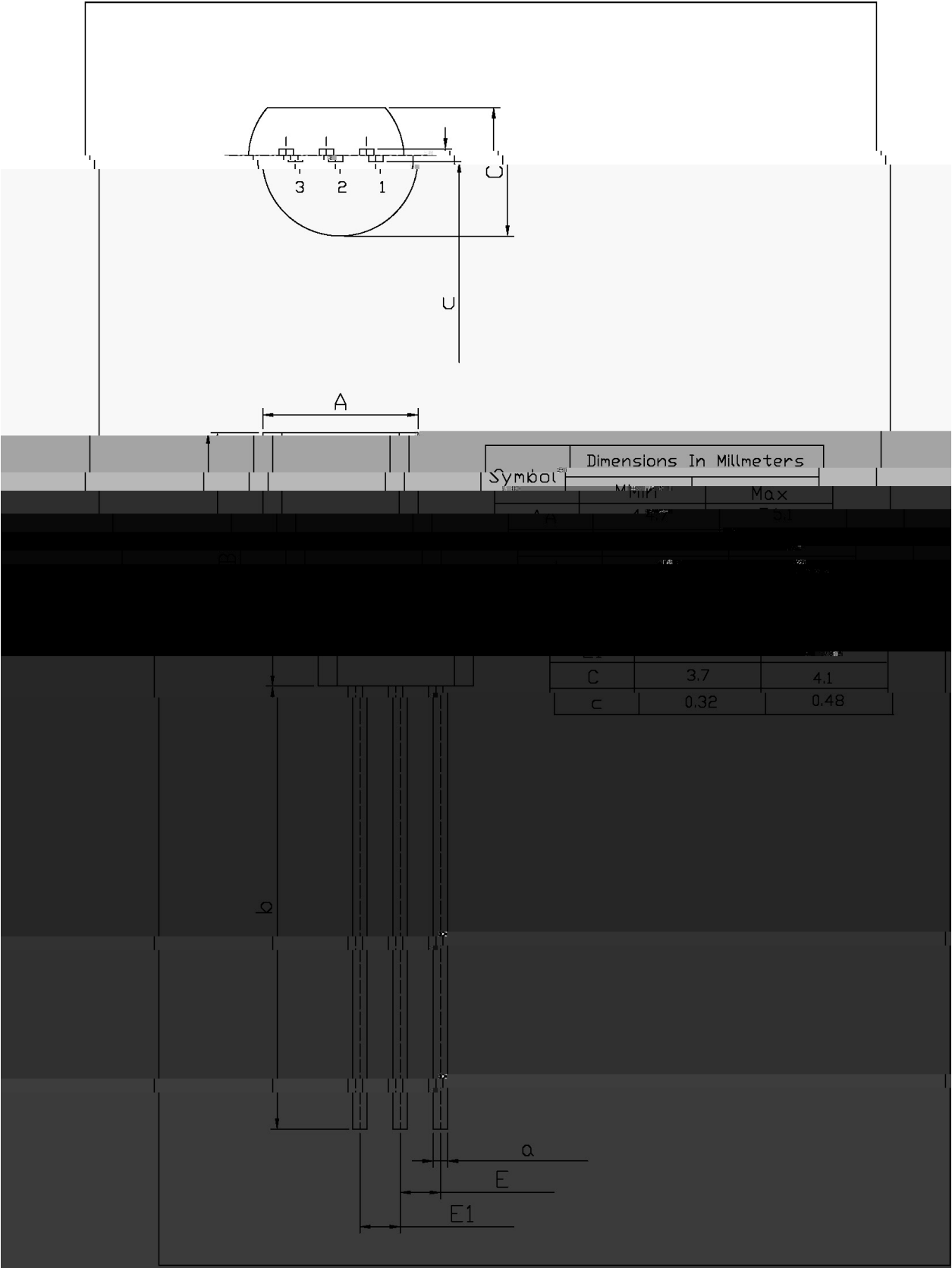
/ Electrical Characteristic Curve



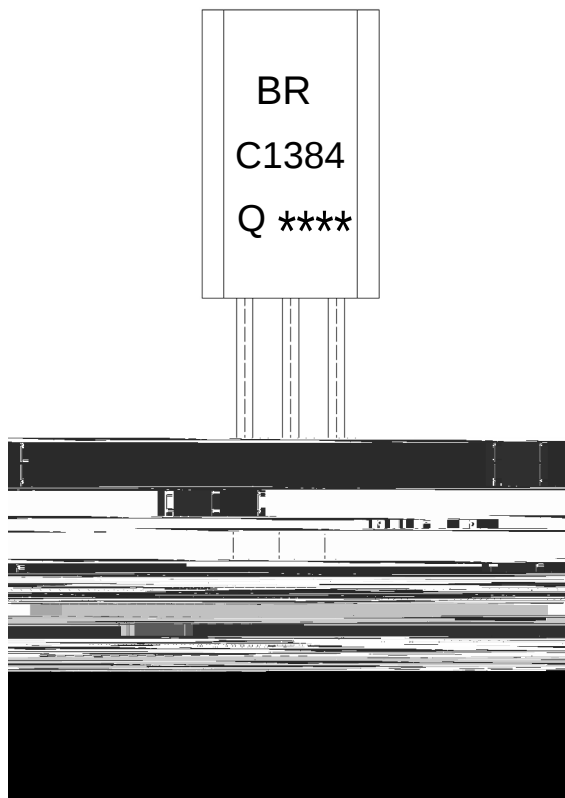
/ Package Dimensions

TO-92LM

Unit: mm



/ Marking Instructions



EU:

F46;7

T: k_{IH}

Note:

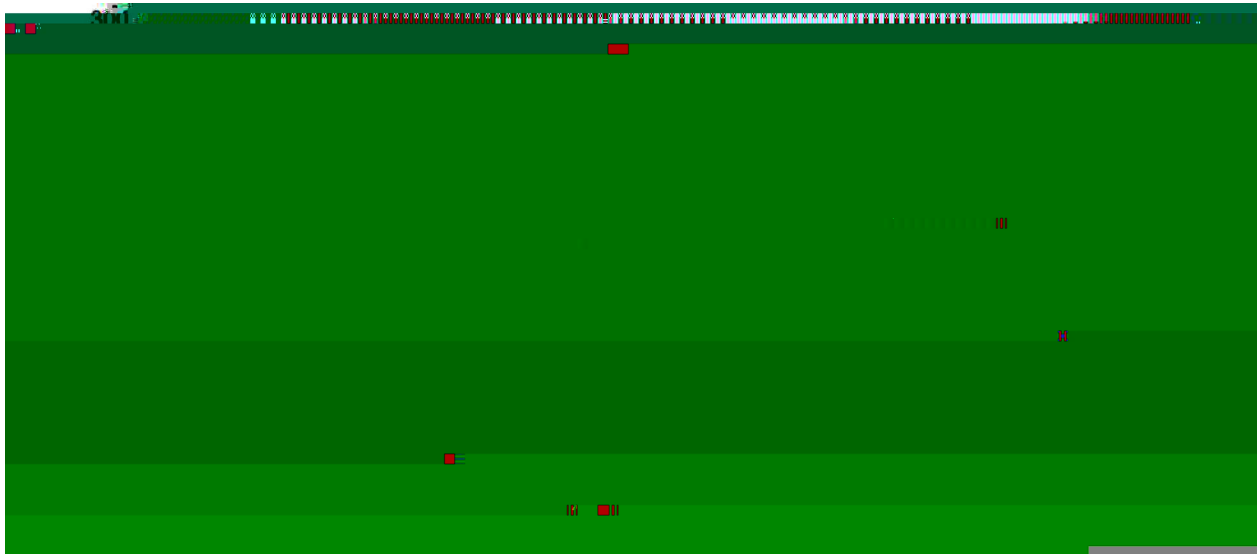
BR: Company Code.

C1384: 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 $\frac{3}{8}$ | 60 | 90sec; | 1.Preheating:25~150 $\frac{3}{8}$, Time:60~90sec. |
| 2 | 255 | $2\frac{5}{8}$ | 5 | $2\frac{5}{8}$ 0.5sec; | 2.Peak Temp.:255 $2\frac{5}{8}$, Duration:5 $2\frac{5}{8}$ 0.5sec. |
| 3 | | 2 | 10 $\frac{3}{8}$ /sec. | | 3. Cooling Speed: 2~10 $\frac{3}{8}$ /sec. |

/ Resistance to Soldering Heat Test Conditions

270 $2\frac{5}{8}$ 10 $2\frac{1}{2}$ sec. Temp.:270 $2\frac{5}{8}$ Time:10 $2\frac{1}{2}$ 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				