2SC1384

Rev.E Mar.-2016

蓝箭电子 BLUE ROCKET ELECTRONICS

DATA SHEET

/ Descriptions

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

/ Features

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Low $V_{CE(sat)}$,2 3W output in complementary pair with 2SA684.

/ Applications

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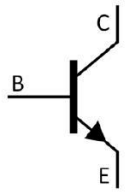
AF power amplifier and driver applications.

/ Equivalent Circuit



/ Pinning

PIN1 χ Base PIN 2 χ Collector PIN 3 χ Emitter

/ h_{FE} Classifications & Marking

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

v ‴Ω Parameter	ϒ N Symbol	‴Ω Ë Rating	D Ч 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

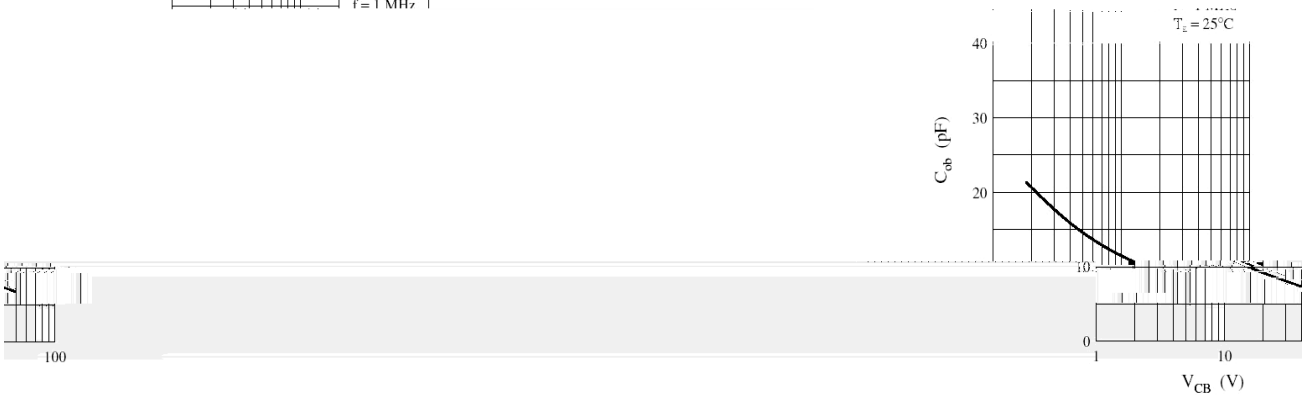
P_C — T_a

I_C — V_{CE}

I_C — I_B

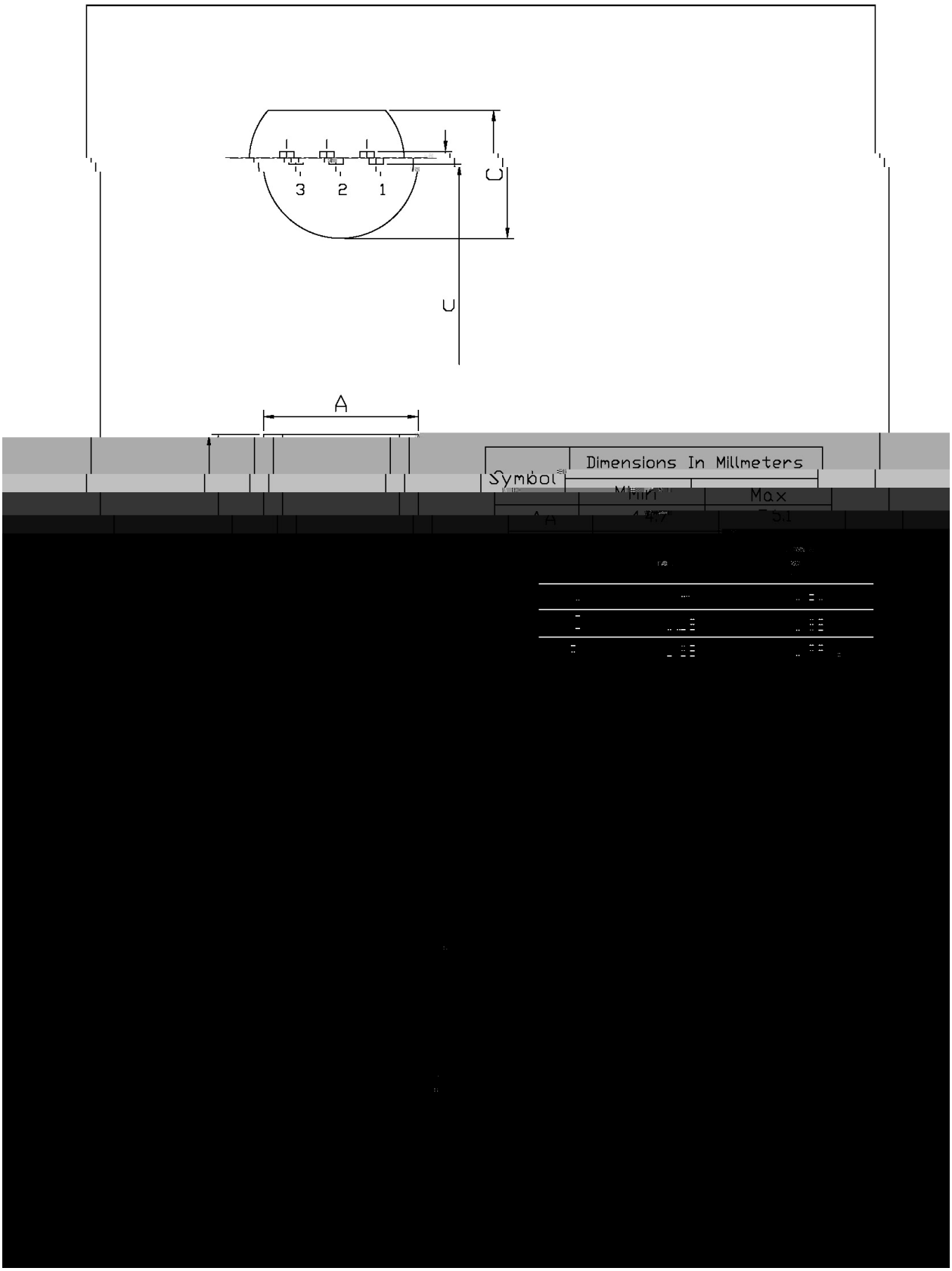
[redacted]

C_{ob} — V_{CB}

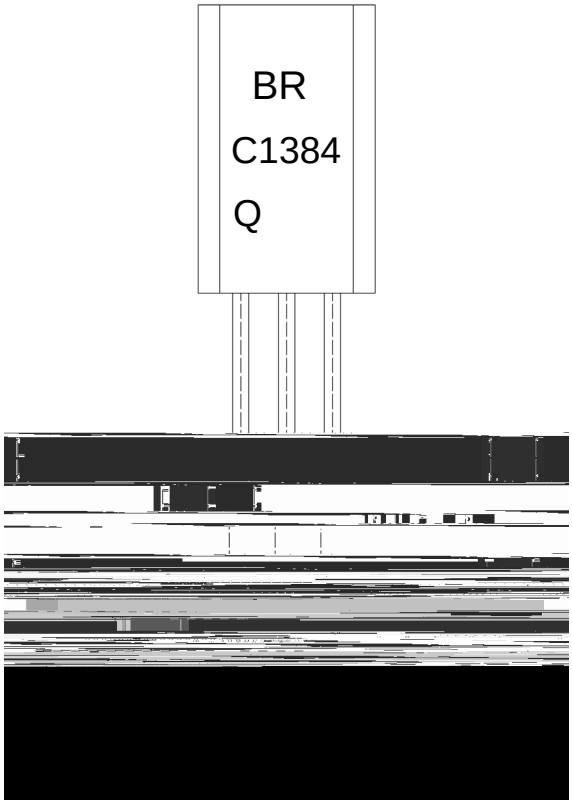


/ Package Dimensions

TO-92LM Unit: mm



/ Marking Instructions



ب ″ χ	
EU=	ѭ ҙ и Ґђ
F46 ; 7 χ	ѭ ҙ N Ґђ
T=	ѭ k IH ‘ 6 Ґђ
---- χ	ѭ ł ғ ń N Ґђ ı ₺ ł ғ ń N Ψ ק
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)

ب ˝ χ

1 Ĺ ♬ □ ỷ 25 Ḱ 150 ɬ ı ˋH ڑ 60 Ḱ 90sec;

2 Š Ө □ ỷ 255 ° 5 ɬ ı ˋH ڑ ˋY ﾊ ㎛ 5 ° 0.5sec;

3 ì ˙ ﾘ ˛ ɔ ෯ ỷ ㎛ 2 Ḱ 10 ɬ /sec.

Note:

1.Preheating:25~150 ɬ , Time:60~90sec.

2.Peak Temp.:255 ° 5 ɬ , Duration:5 ° 0.5sec.

3. Cooling Speed: 2~10 ɬ /sec.

/ Resistance to Soldering Heat Test Conditions

□ ỷ χ 270 ° 5 ɬ ˋH ڑ χ 10 ° 1 sec. Temp.:270 ° 5 ɬ Time:10 ° 1 sec

/ Packaging SPEC.

ˇQ ţ ﾔ Ł / BULK

Package Type	Units					Dimension		(unit mm3)