蓝箭电子
BLUE ROCKET ELECTRONICS
DATA SHEET

2SD1864

Rev.E Mar.-2016

/ Descriptions

WR0<50P ṂṂ Ŀ QSQ ӕṀ ҷ s Ⅱ ┐ Silicon NPN transistor in a TO-92LM Plastic Package.

/ Features

ت ܩ я ں Ң ı љ 5VE4576 Ӥ ´

Low $V_{CE(sat)}$,complementary pair with 2SB1243.

/ Applications

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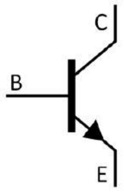
General power amplifier applications.

/ Equivalent Circuit



/ Pinning

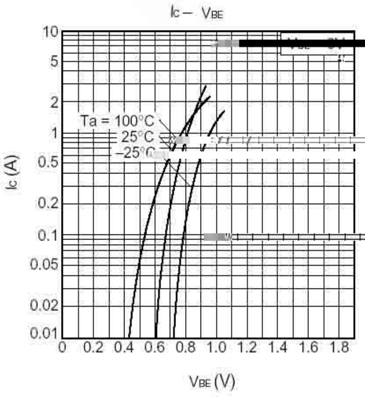
PIN1 χ Base PIN 2 χ Collector PIN 3 χ Emitter

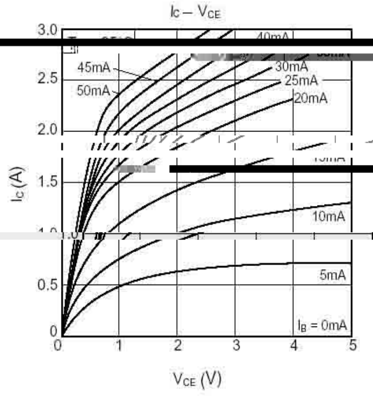
/ h_{FE} Classifications & Marking

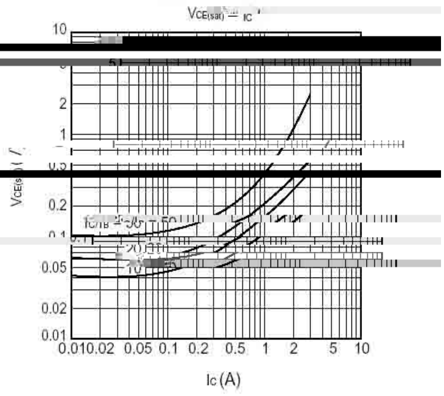
h_{FE} Classifications Symbol	P	Q	R
h_{FE} Range	82 180	120 270	180 390

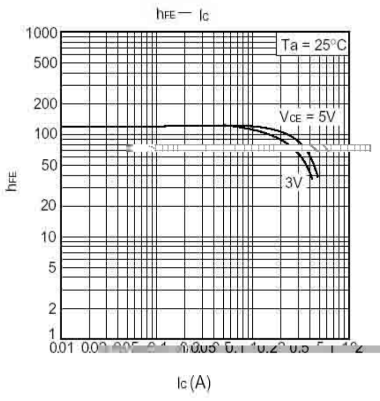
v ̏Ω̡ Parameter	˧ ᴺ Symbol	̏Ω̡Ӫ Rating	ᴅ Ʉ Unit
Collector to Base Voltage	V_{CBO}	60	V
Collector to Emitter Voltage	V_{CEO}	50	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current (DC)	I_C	3.0	A
Collector Current (Pulse)	I_{CP}	4.5	A
Collector Power Dissipation	P_C	1.0	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55	

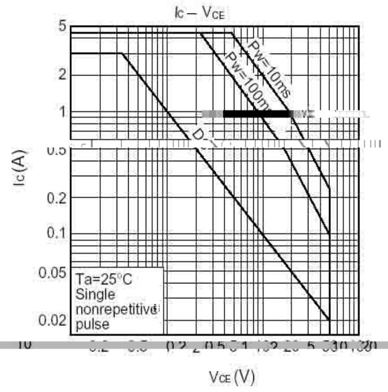
/ Electrical Characteristic Curve

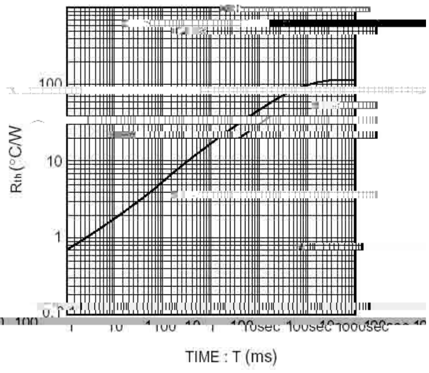


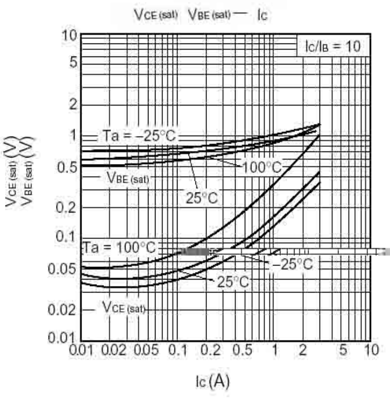


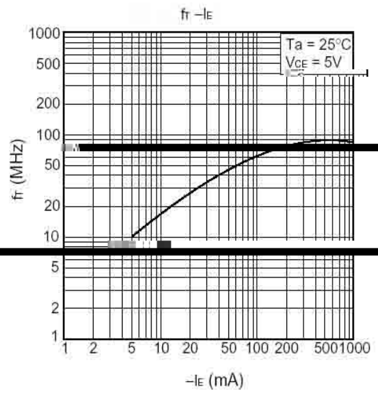


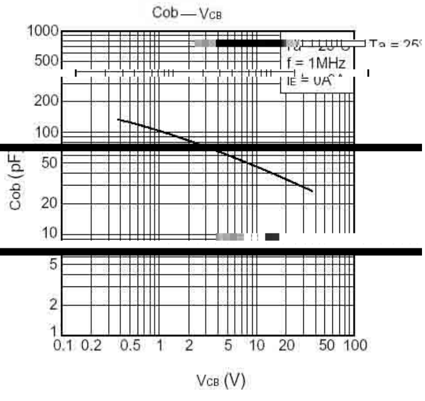




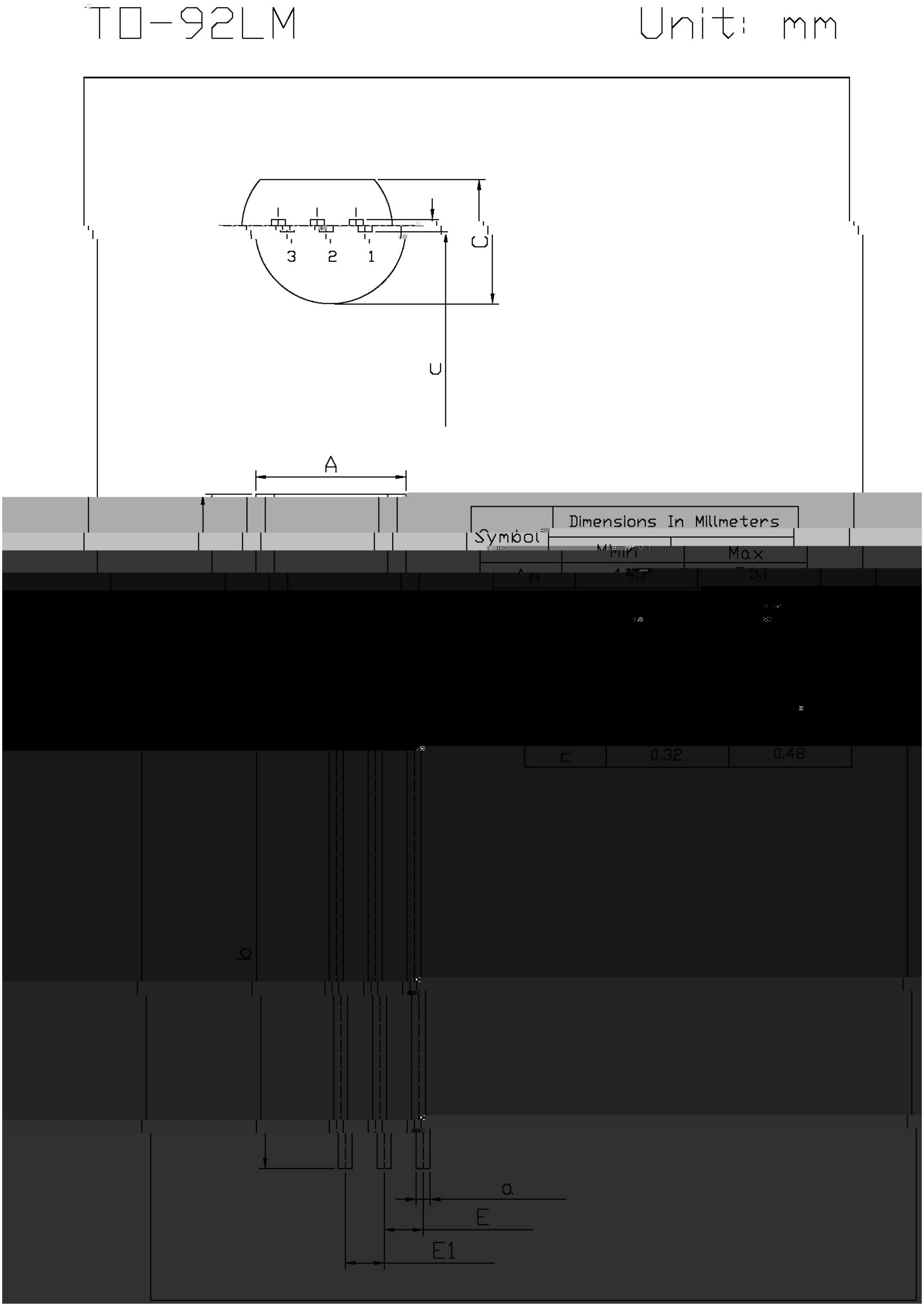






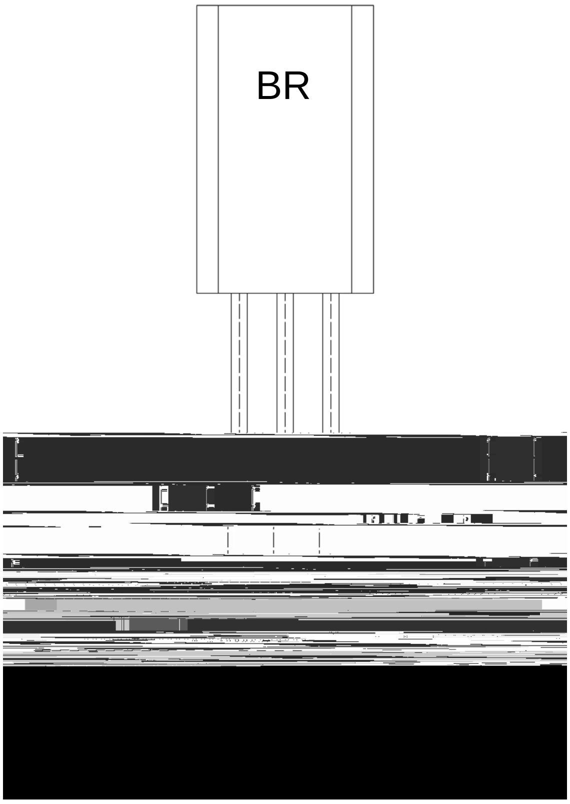


/ Package Dimensions



Symbol	Dimensions In Millmeters	
	Min	Max
A	4.7	5.1
c	0.32	0.48

/ Marking Instructions



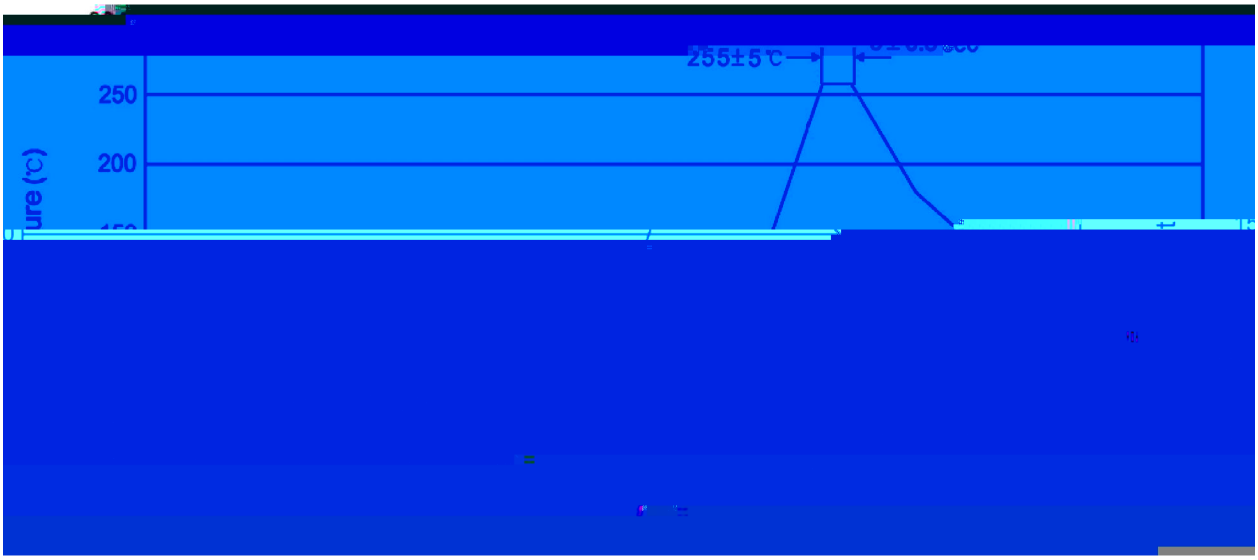
ب ˝ χ

EU꞊	[illegible]
G4 ; 97 χ	[illegible]
S꞊	[illegible]
---- χ	[illegible]

Note:

BR:	Company Code.
D1864:	Product Type.
P:	h_{FE} Classifications Symbol
****:	Lot No. Code,code change with Lot No.

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



ب ˝ χ

1 ǐ ♬ □ ỹ 25 Ḱ 150 ł ı `H ڗ 60 Ḱ 90sec;

2 Š Ӫ □ ỹ 255 ° 5 ł ı `H ڗ `Y ᛯ 㯿 5 ° 0.5sec;

3 ì ˙ ㄟ ˛ ɔ ኤ ỹ 㯿 2 Ḱ 10 ł /sec.

Note:

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

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

3. Cooling Speed: 2~10 ł /sec.

□ ỹ χ 270 ° 5 ł `H ڗ χ 10 ° 1 sec.

Temp.:270±5