

I Descriptions

WR0<5+U, M M E QSQ æ M ç s ll 1 Silicon NPN transistor in a TO-92(R) Plastic Package.

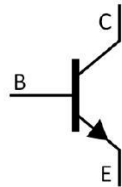
I Features

æ ç ll/лб EF65; Й ´
High current, complementary pair with BC328.

I Applications

ˆ ˆ æ ç 3 Å H 1 ˆ
General purpose and switching.

I Equivalent Circuit



I Pinning



1 2 3
PIN1 χ Emitter PIN 2 χ Base PIN 3 χ Collector

I hFE Classifications & Marking

hFE Classifications Symbol	16	25	40
hFE Range	100~250	160~400	250~600



Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	30	V
Collector to Emitter Voltage	V_{CEO}	25	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current - Continuous	I_C	800	mA
Emitter Current - Continuous	I_E	-800	mA
Collector Power Dissipation	P_C	625	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

/ Electrical Characteristics($T_a=25^\circ\text{C}$)

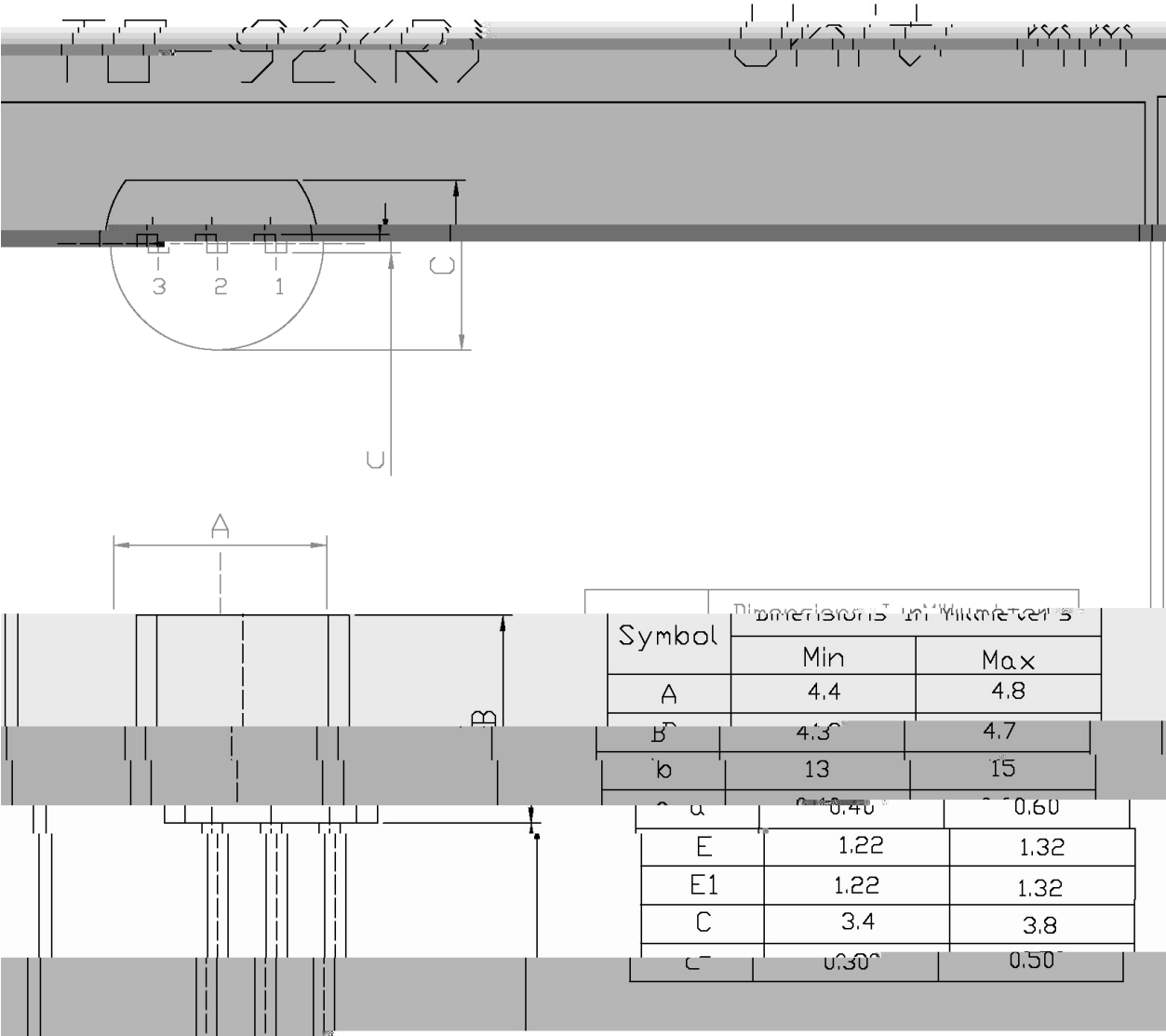
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I_{CBO}	$V_{CB}=25V$ $I_E=0$			0.1	μA
DC Current Gain	h_{FE}	$V_{CE}=1.0V$ $I_C=100mA$	100		600	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=500mA$ I_B				

BC338

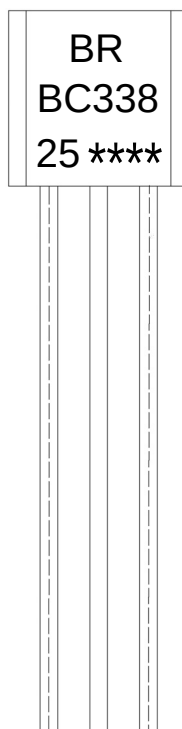
Rev.E Mar.-2016

DATA SHEET

/ Package Dimensions



/ Marking Instructions



Б " X

EU X ㄣ 3 1 7

EF66; X ㄣ F β 3 N

58: ㄣ k_{1H}' 6 7

---- X ㄣ 1 F 7 N 7 1 8 1 F 7 N ψ ρ

Note:

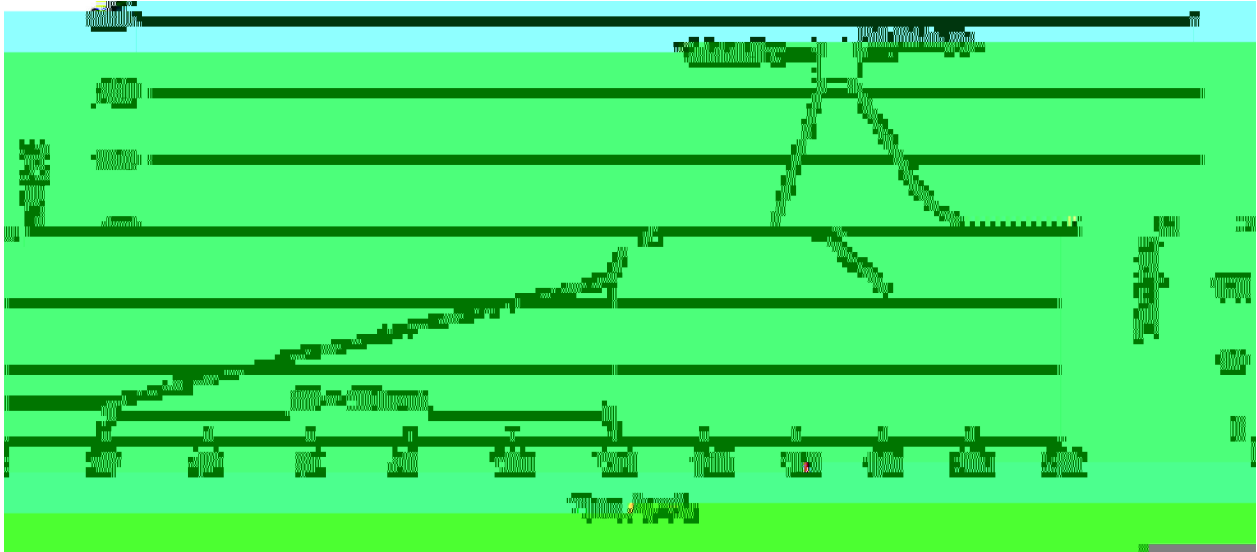
BR: Company Code.

BC338: Product Type.

25: h_{FE} Classifications Symbol

****: Lot No. Code, code change with Lot No.

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



说明

1. 预加热: 25~150 °C, 时间: 60~90sec;
2. 峰值温度: 255 °C, 持续时间: 5 °C 0.5sec;
3. 冷却速度: 2~10 °C /sec.

Note:

- 1.Preheating:25~150 °C , Time:60~90sec.
- 2.Peak Temp.:255 °C , Duration:5 °C 0.5sec.
3. Cooling Speed: 2~10 °C /sec.

/ Resistance to Soldering Heat Test Conditions

温度: 270 °C ± 5 °C 时间: 10 ± 1 sec. Temp.: 270 ± 5 Time: 10 ± 1 sec

/ Packaging SPEC.

散装 / 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-92	1,000	10	10,000	5	50,000	135×190	237×172×102	560×245×195
	1,000	10	10,000	10	100,000	135×190	237×172×102	560×245×375

Ammo / 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-92	3,000	1	120	10	30,000	328×230×42	480×346×235 547×407×268

/ Notices