

/ Descriptions

WR0<5 M M E QSQ Æ M y s ll 1 Silicon NPN transistor in a TO-92 Plastic Package.

/ Features

Њ љ ı ó Ъ ı љ NWD45:3 Ў '

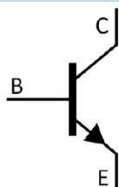
Excellent h_{FE} linearity, complementary to KTA1270.

/ Applications

٢٠٢٠

General purpose and switching application.

/ Equivalent Circuit



/ Pinning

PIN1 $\times$ BasePIN 2 χ Collector

PIN 3 χ Emitter

/ hFE Classifications & Marking

h _{FE} Classifications Symbol	O	Y
h _{FE} Range	70~140	120~240

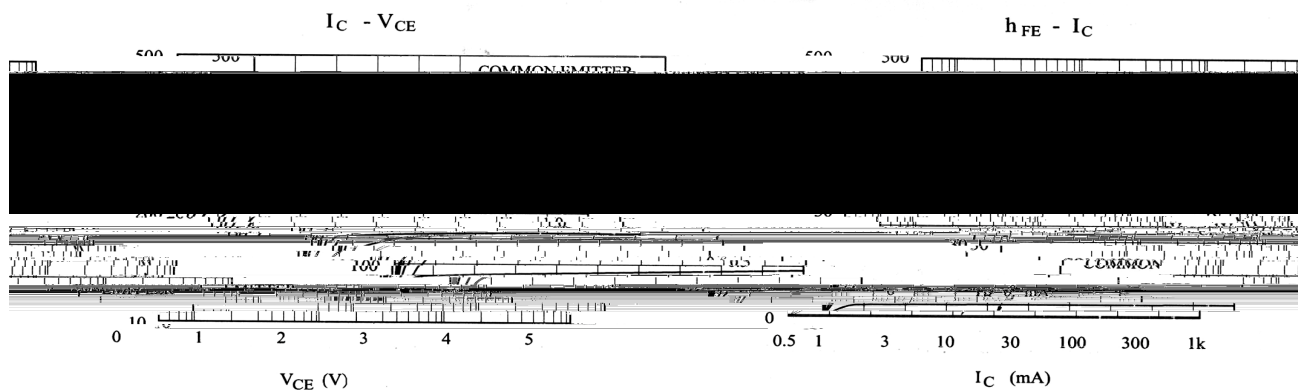
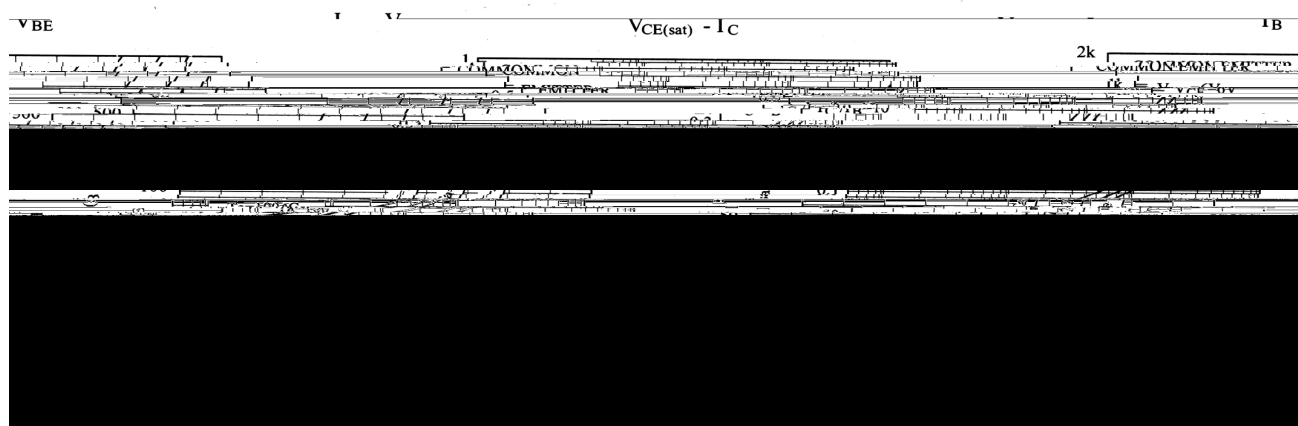
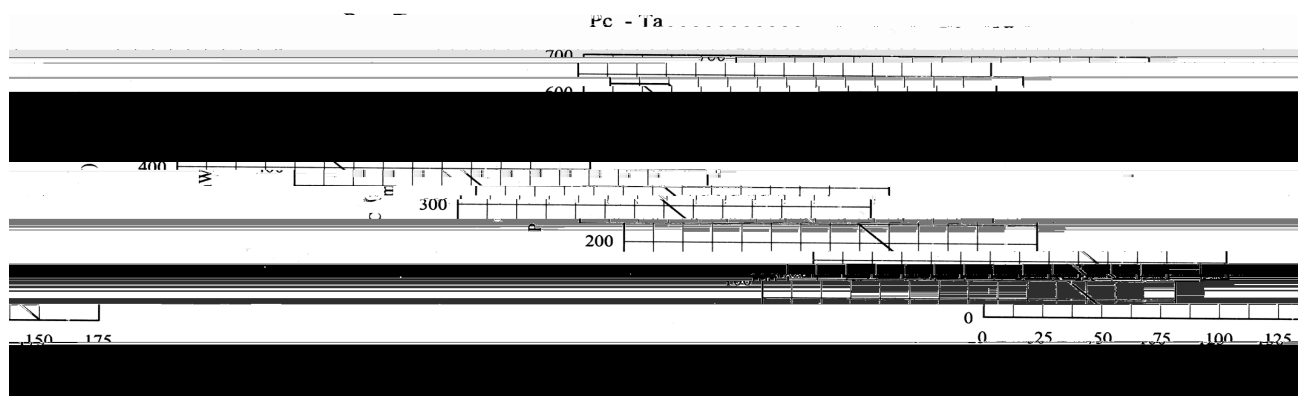
/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	35	V
Collector to Emitter Voltage	V_{CEO}	30	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current - Continuous	I_C	500	mA
Emitter Current - Continuous	I_E	-500	mA
Collector Power Dissipation	P_C	625	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I_{CBO}	$V_{CB}=35V$ $I_E=0$			0.1	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=5.0V$ $I_C=0$			0.1	μA
DC Current Gain	$h_{FE(1)}$	$V_{CE}=1.0V$ $I_C=100mA$	70		240	
	$h_{FE(2)}$	$V_{CE}=6.0V$ $I_C=400mA$	25			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=100mA$ $I_B=10mA$		0.1	0.25	V
Base to Emitter Voltage	V_{BE}	$V_{CE}=1.0V$ $I_C=100mA$		0.8	1.0	V
Transition Frequency	f_T	$V_{CE}=6.0V$ $I_C=20mA$		300		MHz
Collector Capacitance	C_{ob}	$V_{CB}=6.0V$ $f=1.0MHz$ $I_E=0$		7.0		pF

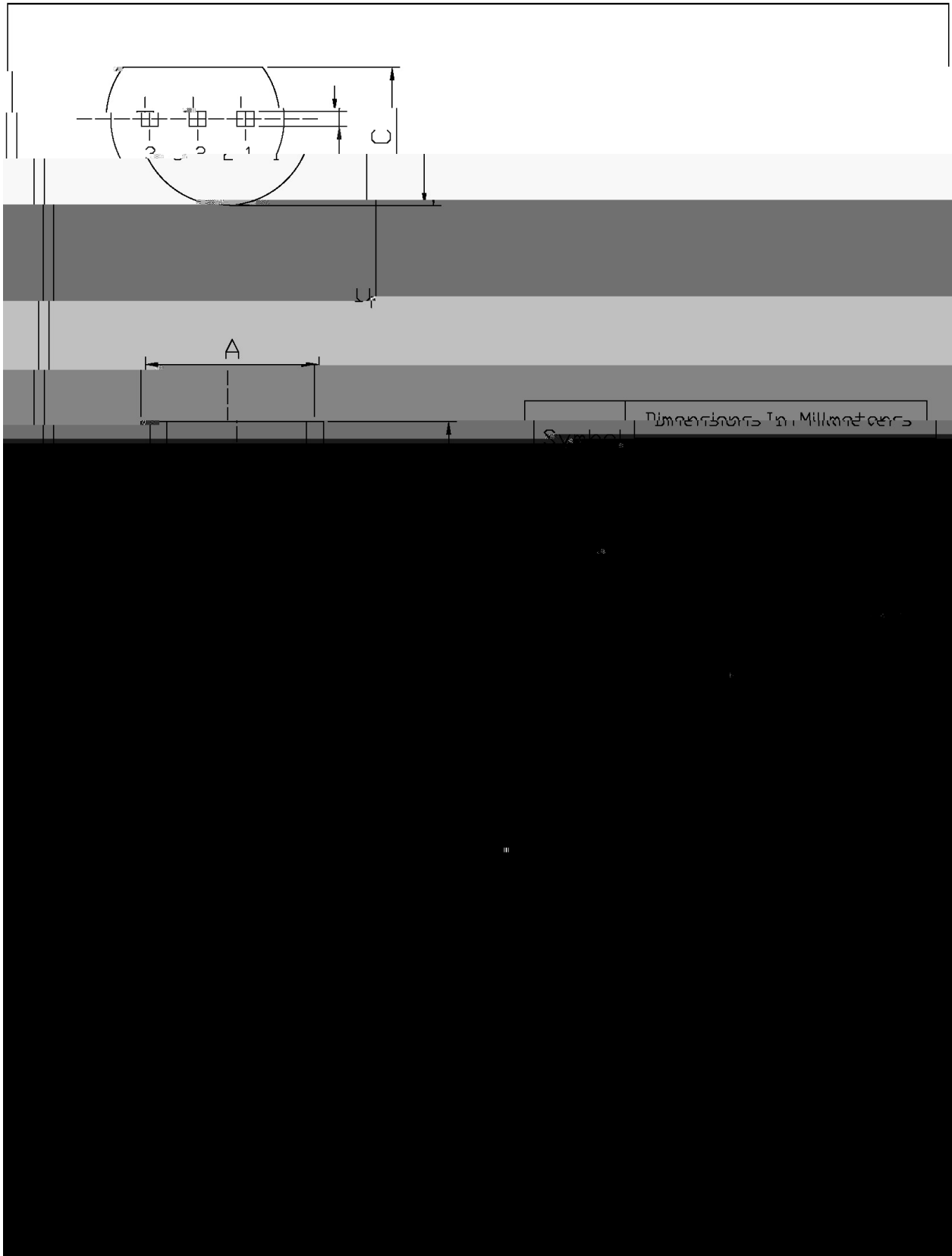
/ Electrical Characteristic Curve



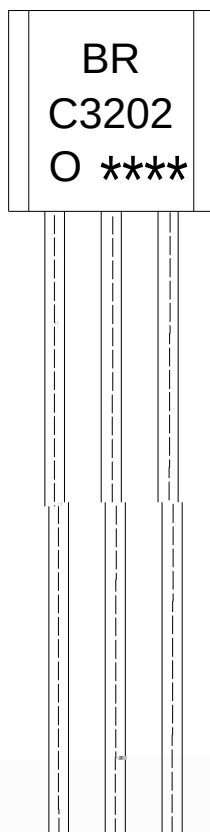
/ Package Dimensions

T0-92

Unit: mm



/ Marking Instructions



ب"خ

EU=

F6535 χ
$$R =$$

--- x

Note:

BR:

C3202:

O:

****.

ᠬᠠᠭ ᠰᠢ ᠠᠨ ᠤᠯᠤᠰ

ᠬᠡᠳᠡᠨᠢᠨᠠᠨ

$$h_{FE} \approx 6 \text{ } \Omega$$
$$\mathbb{H} \cdot f \check{\eta}^N \Gamma_D \quad \text{I} \otimes f \check{\eta}^N \Psi \rho$$

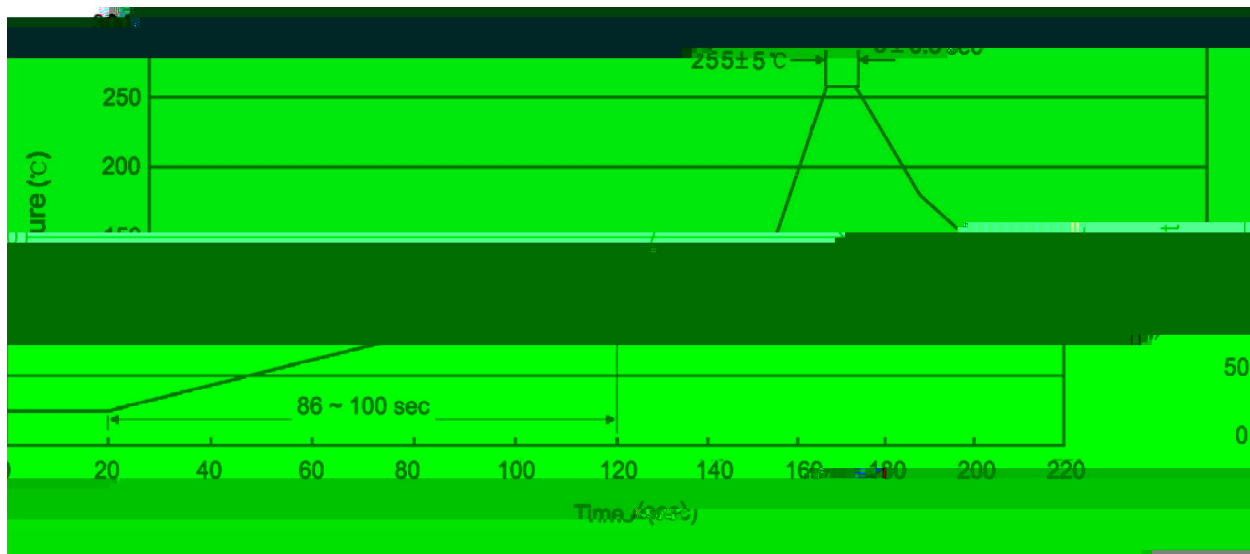
Company Code.

Product Type.

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, Time: 60~90sec;
2. 峰值温度: 255±5 °C, 持续时间: 5~0.5sec;
3. 冷却速度: 2~10 °C/sec.

Note:

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

/ Resistance to Soldering Heat Test Conditions

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

/ Packaging SPEC.

包装形式 / BULK

Package Type	Units	Dimension 314	0
--------------	-------	---------------	---