/ Descriptions

WR0<5 ṂṂ Ь QSQ ÆṀ ч s ‖ ㄱ Silicon NPN transistor in a TO-92 Plastic Package.

/ Features

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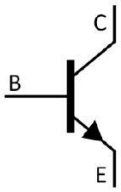
Excellent h_{FE} linearity, complementary to KTA1270.

/ Applications

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General purpose and switching application.

/ Equivalent Circuit



/ Pinning



PIN1 χ Base PIN 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)

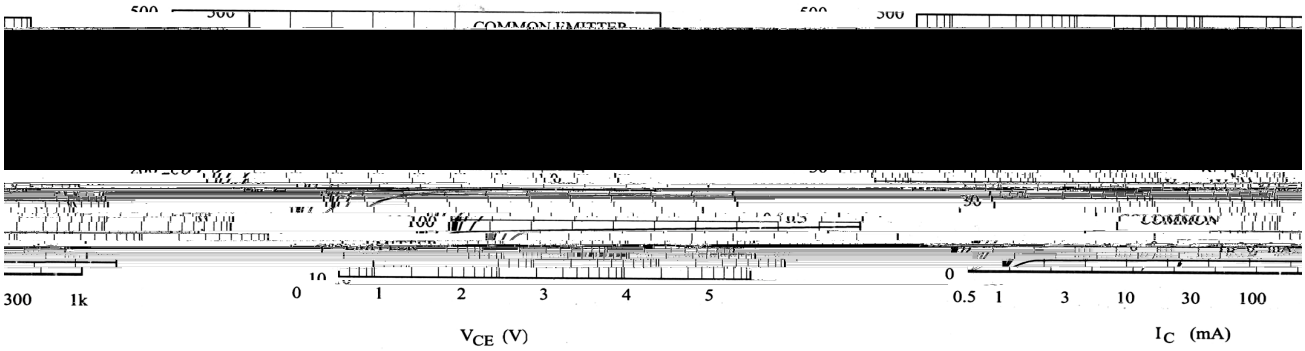
v ̈Ω Parameter	٩ N Symbol	̈Ω Ö Rating	D Ч Unit
Collector to Base Voltage	V_{CBO}	35	V
Collector to Emitter Voltage	V_{CEO}	30	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current - Continuous	I_C	500	mA
Emitter Current - Continuous	I_E	-500	mA
Collector Power Dissipation	P_C	625	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

/ Electrical Characteristics(Ta=25)

v ̈Ω Parameter	٩ N Symbol	‗ ;ˆ ţ Test Conditions	ώ ṇ Ö Min	Ɛ ʒ Ö Typ	ώ ᶻ Ö Max	D Ч 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 I_E=0 f=1.0MHz		7.0		pF

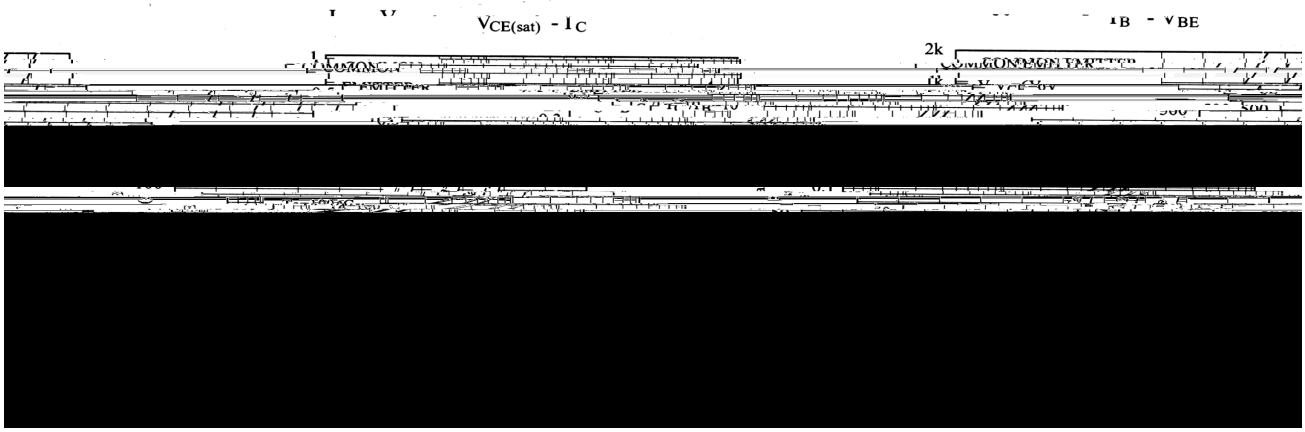
/ Electrical Characteristic Curve

I_C - V_{CE}



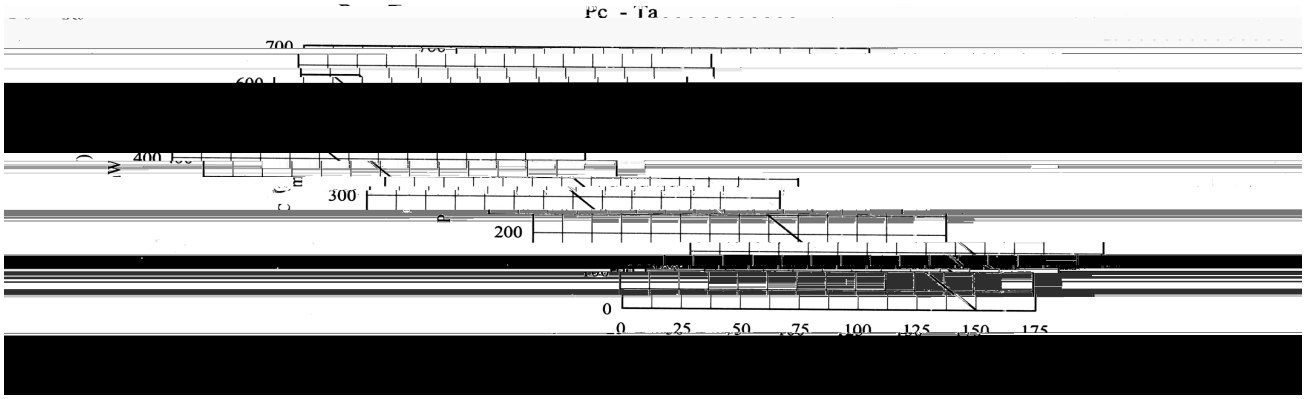
h_{FE} - I_C

$V_{CE(sat)}$ - I_C

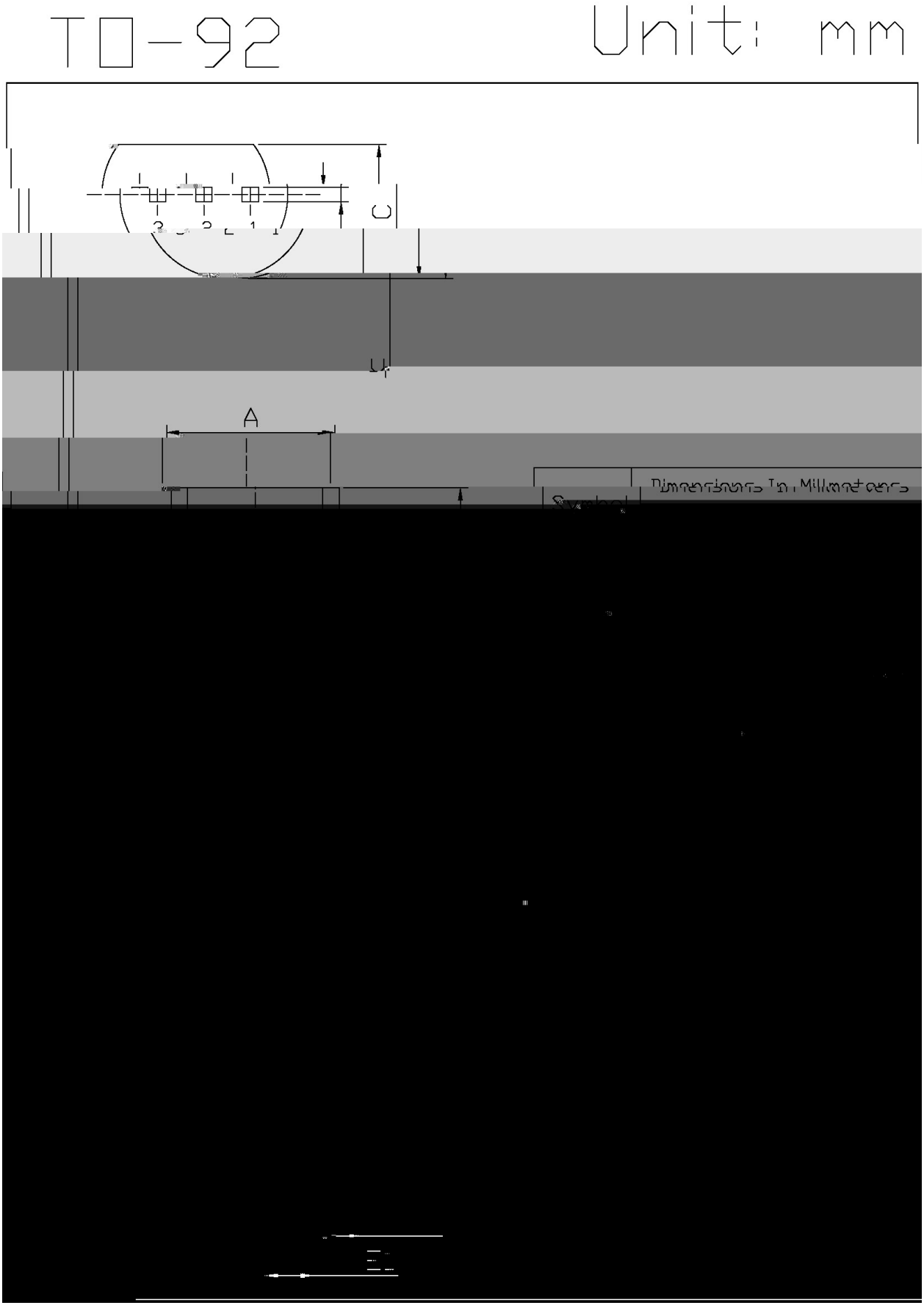


I_B - V_{BE}

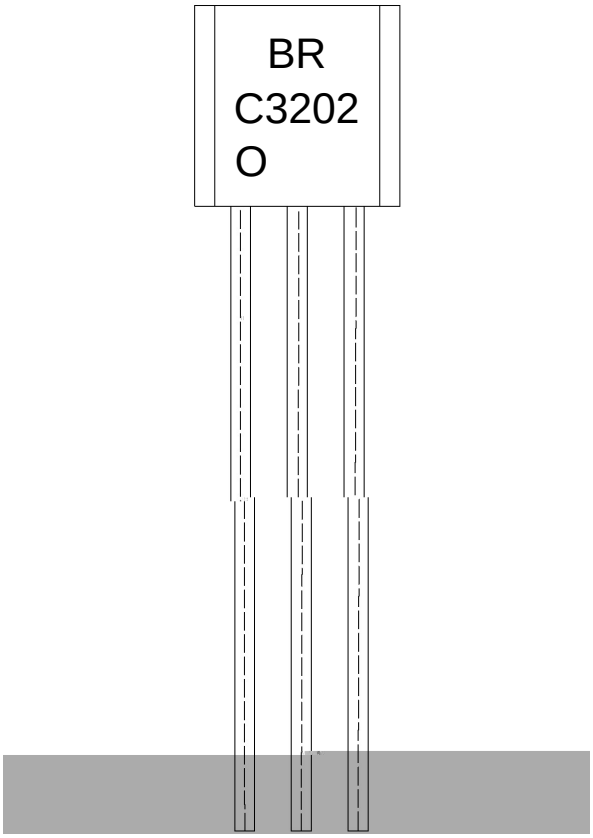
Pc - Ta



/ Package Dimensions



/ Marking Instructions



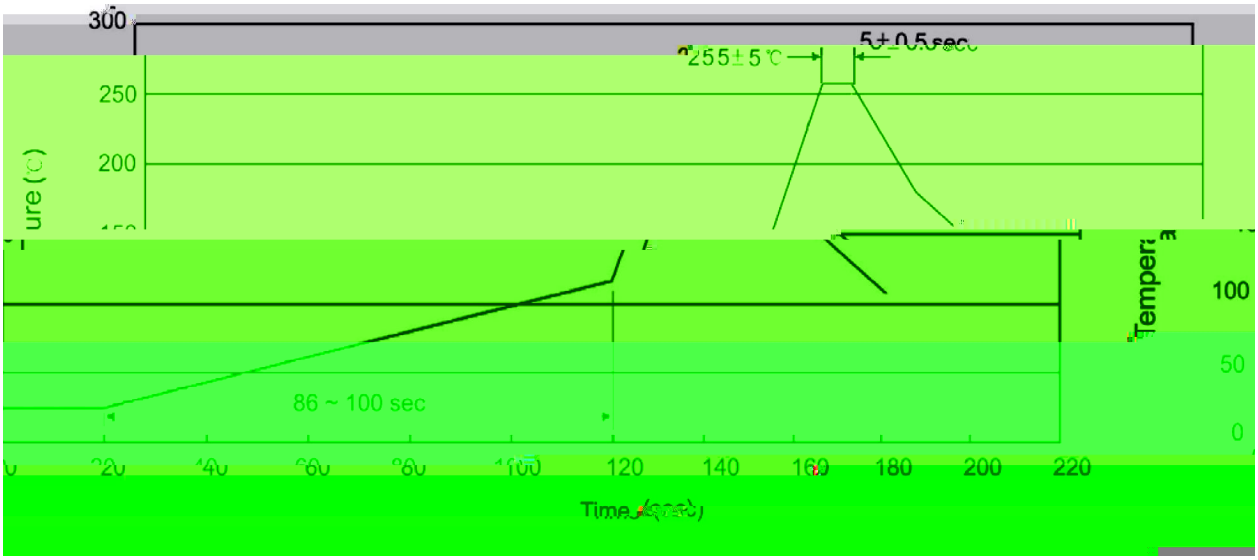
ب ˝ χ

EU=	ﻫ ﺡ ﻧ ﻕ
F6535 χ	ﻫ ﺟ ﻦ ﻕ
R=	ﻫ h_{FE} ﺀ ﻕ
---- χ	ﻫ ﺍ ﻓ ﻯ ﻦ ﻕ ﺍ ﻉ ﺍ ﻓ ﻯ ﻦ ﻳ ﻕ

Note:

BR:	Company Code.
C3202:	Product Type.
O:	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 ﻉ 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	Time:10±1 sec

/ Packaging SPEC.

ˈQ ţ ﾘ Ł / BULK

Package Type	Units	Dimension 314	0