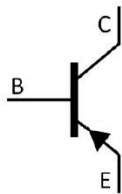


TO-92 PNP Silicon PNP transistor in a TO-92 Plastic Package.

2SC2021
Complementary pair with 2SC2021.

General small-signal amplifier, preamplifiers, equalizer amplifiers, RF amplifiers and oscillators, medium-speed switching.

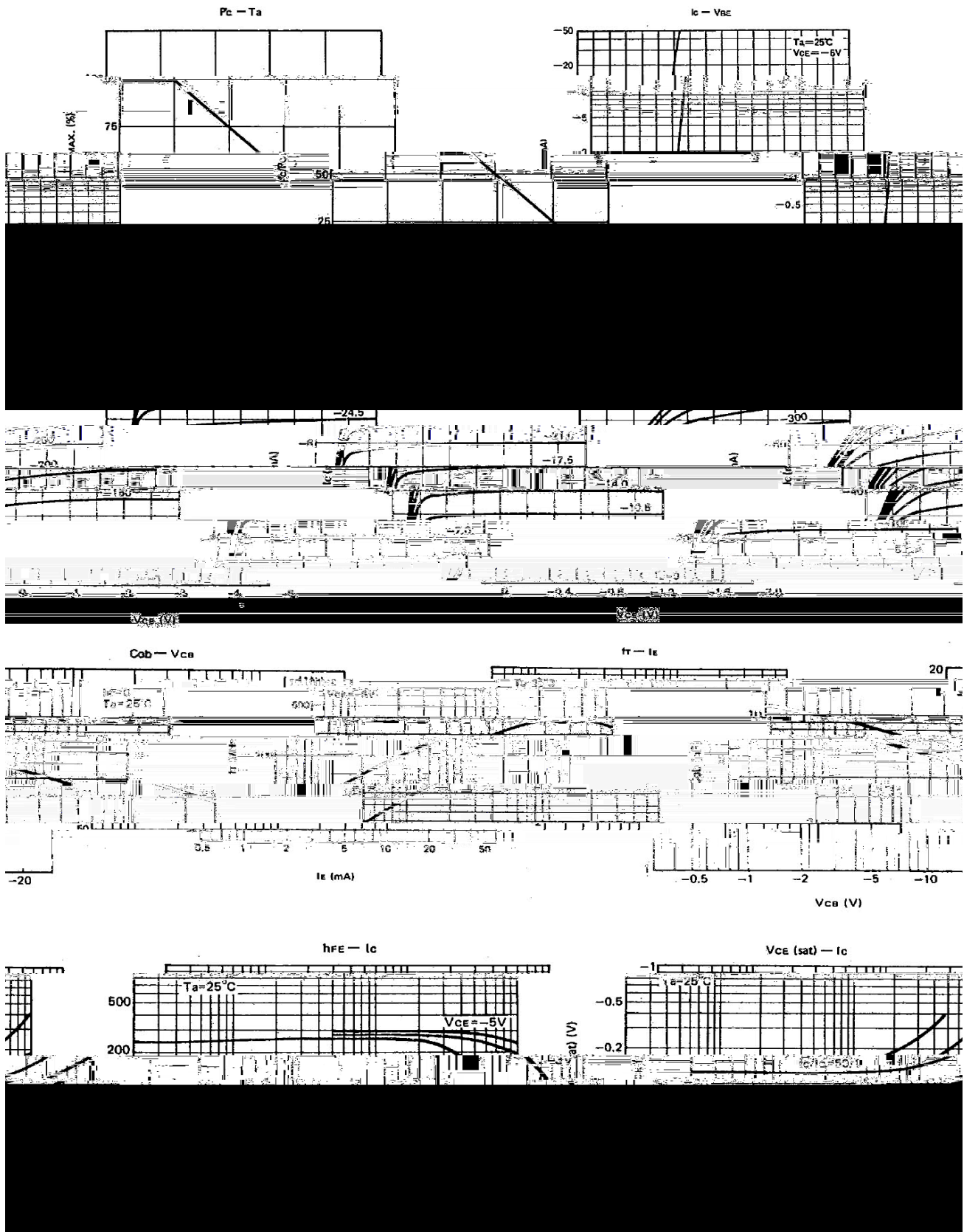


PIN1 Base PIN 2 Collector PIN 3 Emitter

h_{FE} Classifications Symbol	Q	R	S
h_{FE} Range	120~270	180~390	270~560

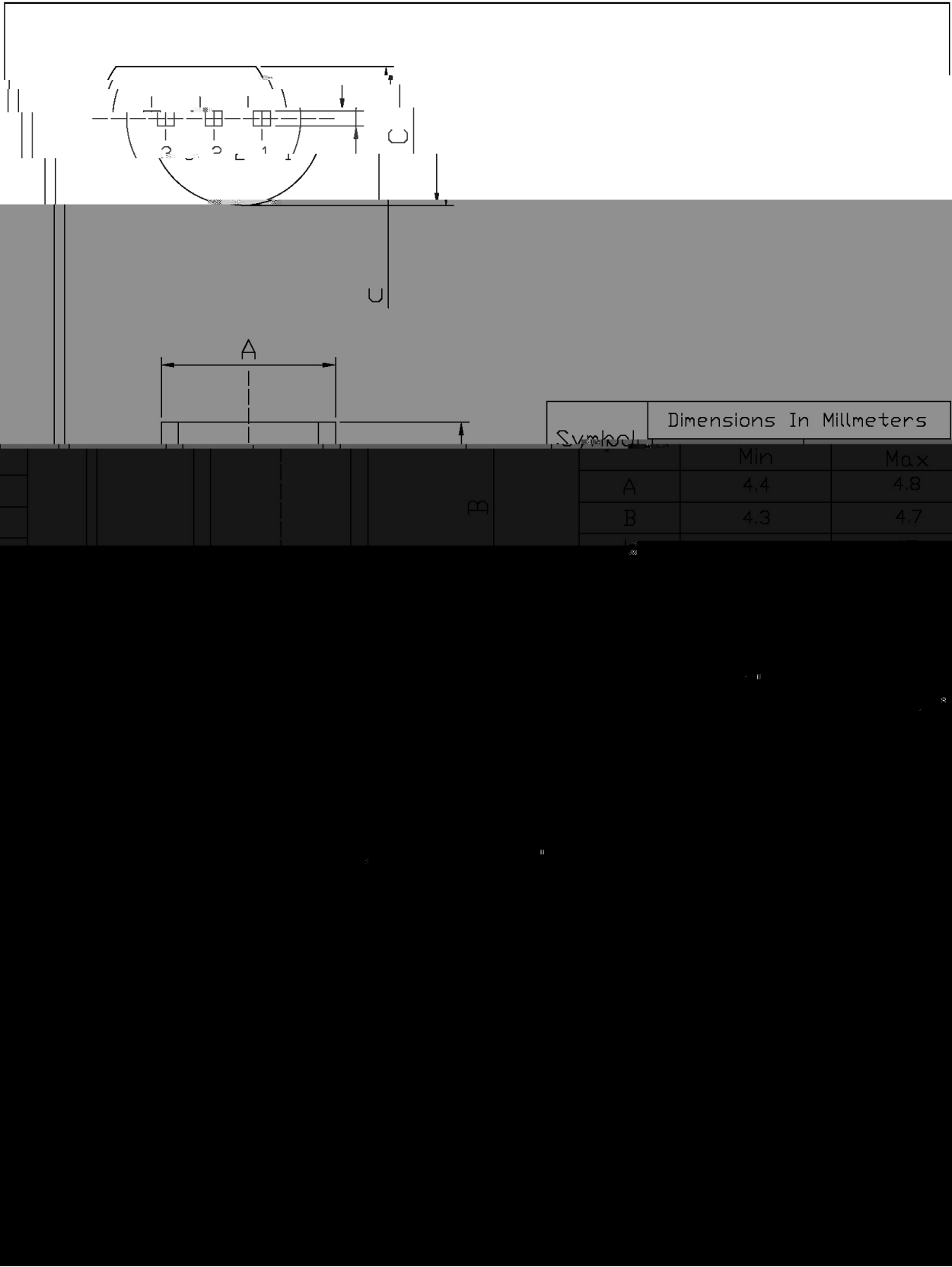
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-50	V
Collector to Emitter Voltage	V_{CEO}	-40	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current - Continuous	I_C	-100	mA
Collector Power Dissipation	P_C	300	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

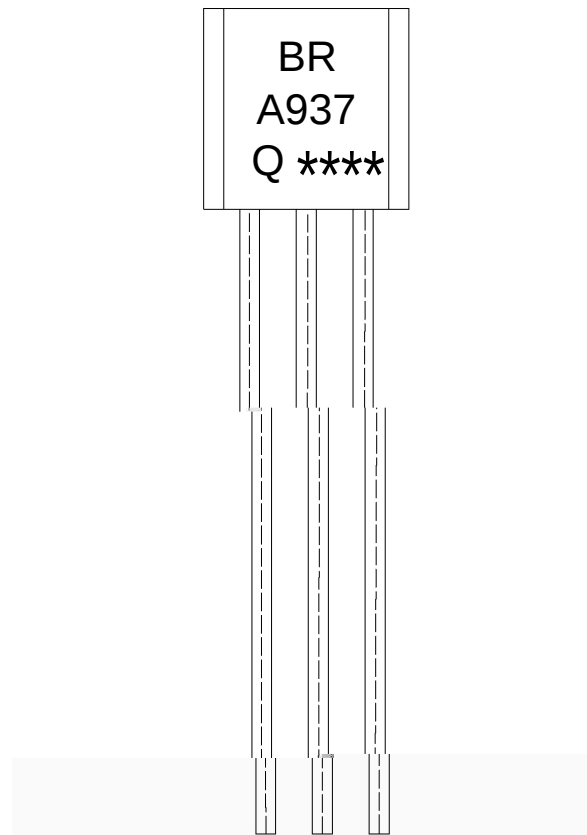
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	$I_C = -50\text{ A}$ $I_E = 0$	-50			V
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C = -1.0\text{mA}$ $I_B = 0$	-40			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E = -50\text{ A}$ $I_C = 0$	-5.0			V
Collector Cut-Off Current	I_{CBO}	$V_{CB} = -30\text{V}$ $I_E = 0$			-0.5	A
Emitter Cut-Off Current	I_{EBO}	$V_{EB} = -4.0\text{V}$ $I_C = 0$			-0.5	A
DC Current Gain	h_{FE}	$V_{CE} = -6.0\text{V}$ $I_C = -1.0\text{mA}$	120		560	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -50\text{mA}$ $I_B = -5.0\text{mA}$		-0.1	-0.5	V
Transition Frequency	f_T	$V_{CE} = -12\text{V}$ $I_C = -2.0\text{mA}$		140		MHz
Output Capacitance	C_{ob}	$V_{CB} = -12\text{V}$ $I_E = 0$ $f = 1.0\text{MHz}$		4.0	5.0	pF



T0-92

Unit: mm





BR:

A937

Q:

h_{FE}

Note:

BR:

Company Code.

A937:

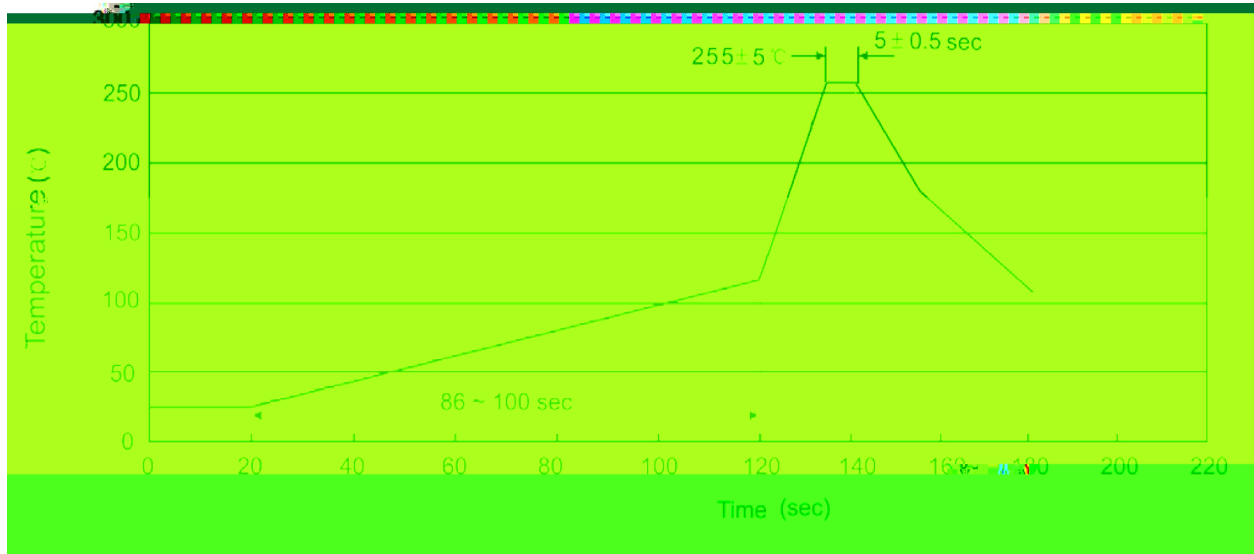
Product Type.

Q:

h_{FE} Classifications Symbol.

****:

Lot No. Code,code change with Lot No.



Note:

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

270±5

10±1 sec.

Temp: 270±5

Time: 10±1 sec

/ BULK

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm3)		
	Units/Bag 只/袋	Bags/Inner Box 袋/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Bag 袋	Inner Box 盒	Outer Box 箱
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

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm3)	
	Units/tape 只/纸带	Tape/Inner Box 纸带/盒	Rows/Inner Box 纸带层/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Inner Box 盒	Outer Box 箱
TO-92	3,000	1	120	10	30,000	328×230×42	小箱 480×346×235, 大箱 547×407×268