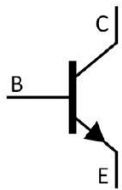


TO-92 NPN Silicon NPN transistor in a TO-92 Plastic Package.

h_{FE} ,
 Low noise, high h_{FE} , high breakdown voltage.

Low noise audio amplifier application.

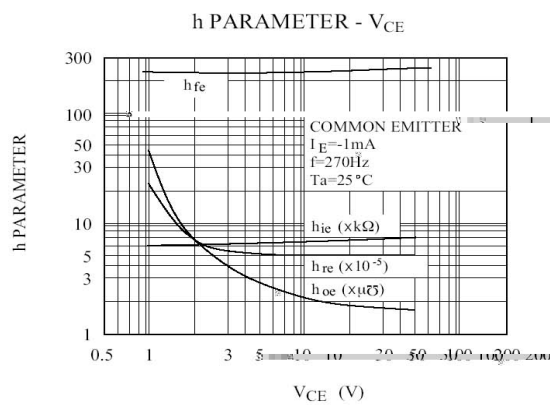
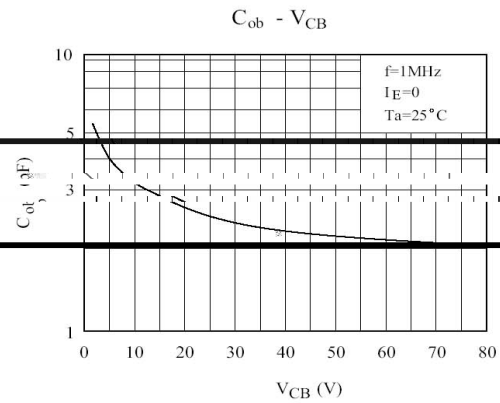
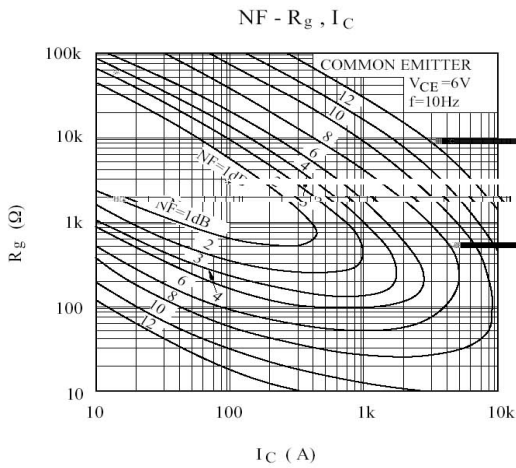
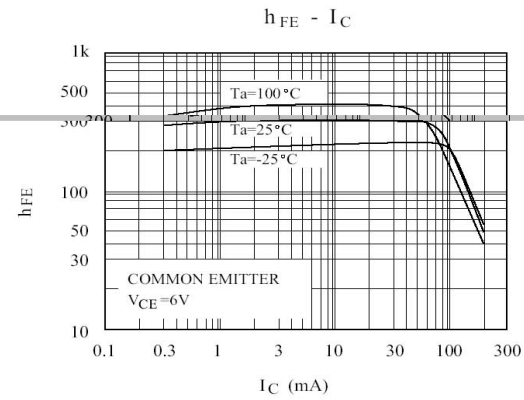
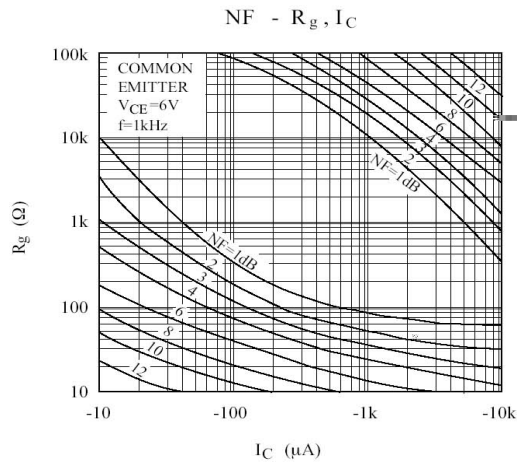


PIN1 Base PIN 2 Collector PIN 3 Emitter

h_{FE} Classifications Symbol	Y	GR	BL
h_{FE} Range	120~240	200~400	350~700

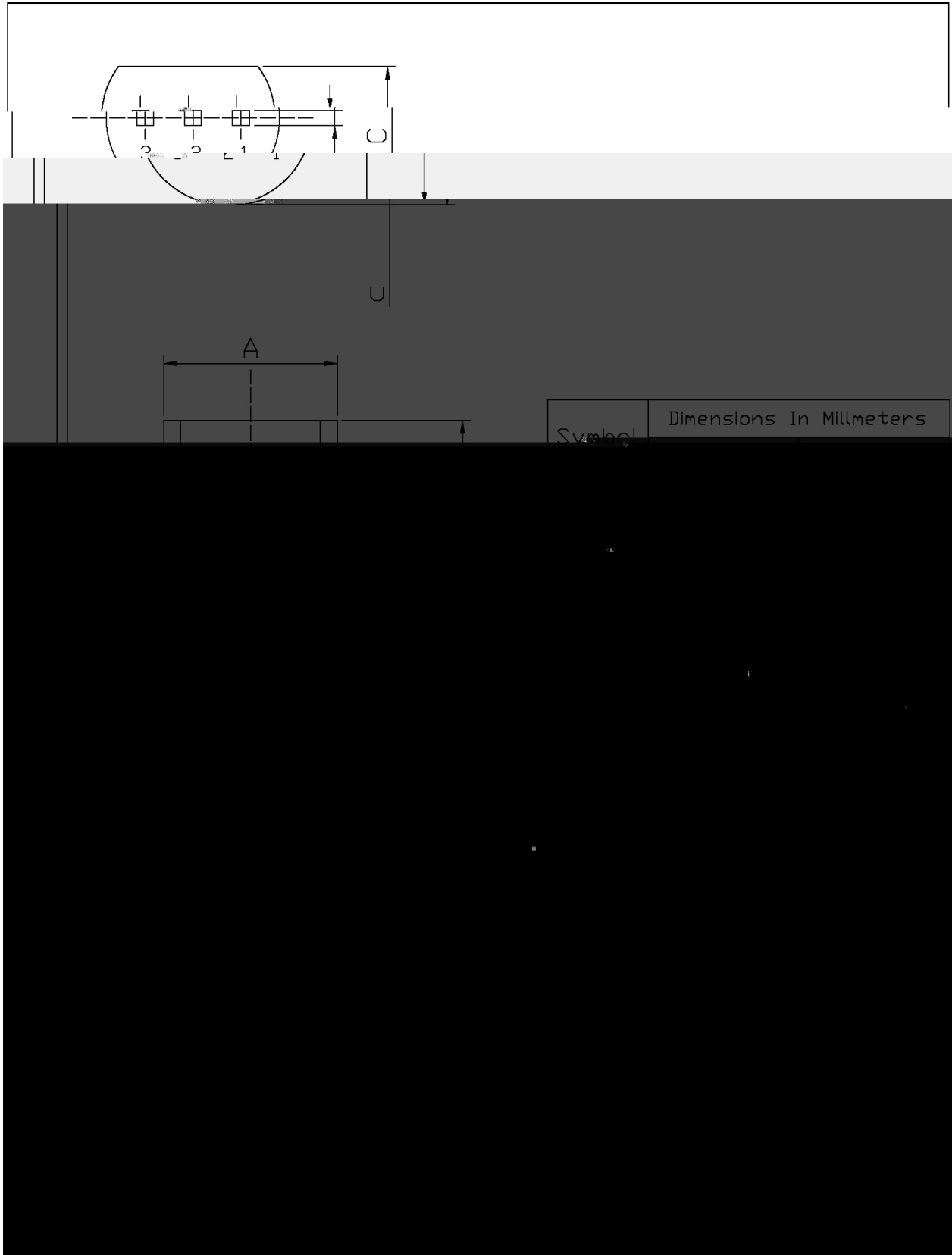
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	120	V
Collector to Emitter Voltage	V_{CEO}	120	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current - Continuous	I_C	100	mA
Collector Power Dissipation	P_C	625	mW
Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{stg}	-55 150	°C

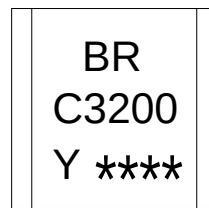
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	$I_C=1.0mA$ $I_B=0$	120			V
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=100$ A $I_E=0$	120			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E=100$ A $I_C=0$	5.0			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=120V$ $I_E=0$			0.1	A
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=5.0V$ $I_C=0$			0.1	A
DC Current Gain	h_{FE}	$V_{CE}=6.0V$ $I_C=2.0mA$	120		700	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=10mA$ $I_B=1.0mA$			0.3	V
Base to Emitter Voltage	V_{BE}	$V_{CE}=6.0V$ $I_C=2.0mA$		0.65		V
Transition Frequency	f_T	$V_{CE}=6.0V$ $I_C=1.0mA$		100		MHz
Collector Capacitance	C_{ob}	$V_{CB}=10V$ $I_E=0$ $f=1.0MHz$		3.0		pF
Noise Figure	NF	$V_{CE}=6.0V$ $I_C=100$ A $f=10Hz$ $R_g=10K$			6.0	dB
		$V_{CE}=6.0V$ $I_C=100$ A $f=1.0KHz$ $R_g=10K$			2.0	
		$V_{CE}=6.0V$ $I_C=100$ A $f=1.0KHz$ $R_g=100$		4.0		



T0-92

Unit: mm





BR:

C3200

Y: h_{FE}

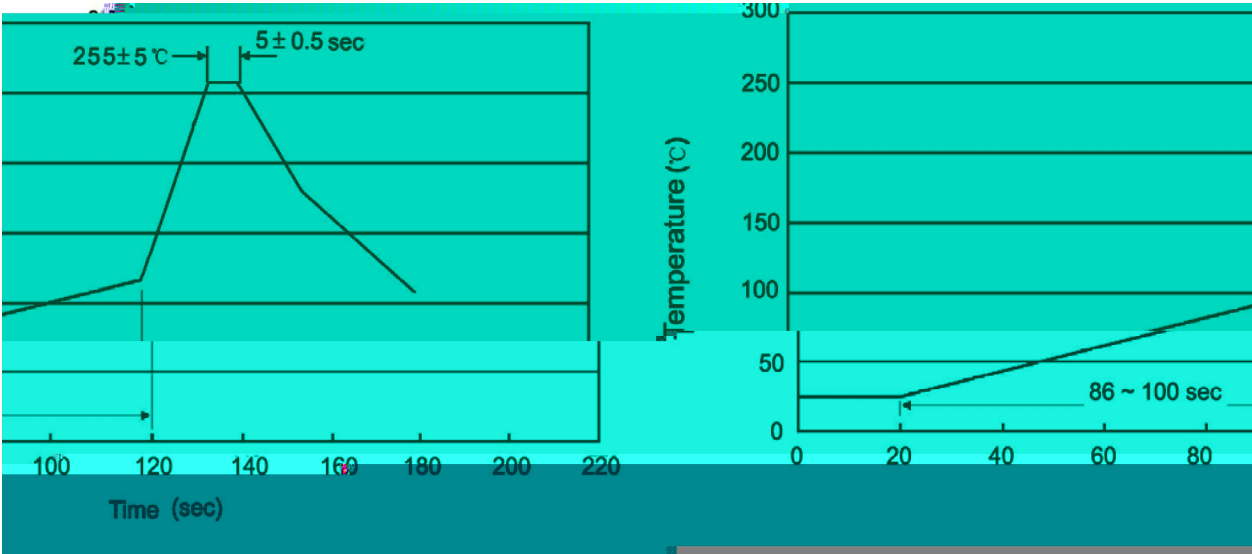
Note:

BR: Company Code.

C3200: Product Type.

Y: h_{FE} Classifications Symbol

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



Note:

- 1

25 150

60 90sec;
- 2

255±5

5±0.5sec;
- 3

2 10

/sec.
- 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°C

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