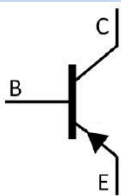


Silicon PNP transistor in a TO-92 Plastic Package.

Low $r_{bb'}$, low noise figure, complementary pair with 2SC3329

Low noise audio amplifier applications.



PIN1 Base PIN 2 Collector PIN 3 Emitter

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

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-80	V
Collector to Emitter Voltage	V_{CEO}	-80	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current - Continuous	I_C	-100	mA
Base Current - Continuous	I_B	-20	mA
Collector Power Dissipation	P_C	400	mW
Junction Temperature	T_J	150	
Storage Temperature Range	T_{stg}	-55 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=-1.0mA$ $I_B=0$	-80			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-80V$ $I_E=0$			-0.1	A
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=-5.0V$ $I_C=0$			-0.1	A
DC Current Gain	h_{FE}	$V_{CE}=-6.0V$ $I_C=-2.0mA$	200		700	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-10mA$ $I_B=-1mA$			-0.1	V
Base to Emitter Voltage	V_{BE}	$V_{CE}=-6.0V$ $I_C=-2.0mA$		-0.6		V
Transition Frequency	f_T	$V_{CE}=-6V$ $I_C=-1.0mA$ $f=100MHz$		50		MHz
Base Spreading Resistance	r_{bb}	$V_{CE}=-6V$ $I_C=-1.0mA$ $f=100MHz$		2.0		
Collector Output Capacitance	C_{ob}	$V_{CB}=-10V$ $I_E=0$ $f=1.0MHz$		6.2		pF
Noise Figure	NF	$V_{CE}=-6.0V$ $R_g=10K$ $I_C=-0.1mA$ $f=10Hz$		1.0	6	dB
		$V_{CE}=-6.0V$ $R_g=10K$ $I_C=-0.1mA$ $f=1.0KHz$		0.5	2	dB

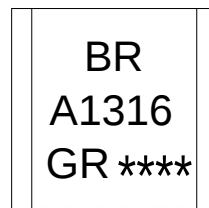


TO-92

Unit: mm



	Min	Max
A	4.4	4.8
B	4.3	4.7
ϕ	13	15
a	0.40	0.60
E	1.22	1.32
E1	1.22	1.32
ϕ	3.4	3.8
c	0.30	0.50



h_{FE}

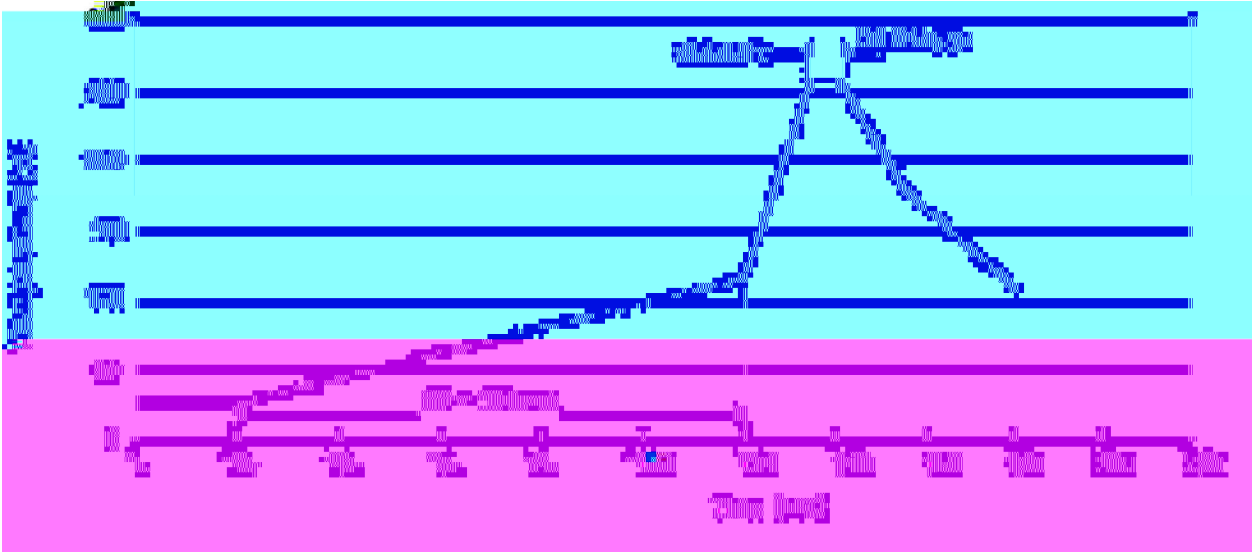
Note:

BR: Company Code.

A1316: Product Type.

GR: h_{FE} Classifications Symbol

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



Note:

- 1251506090sec;

2255550.5sec;

3210/sec.
- 1.Preheating:25~150, Time:60~90sec.

2.Peak Temp.:255 5, Duration:5 0.5sec.

3. Cooling Speed: 2~10 /sec.

2705101 sec.Temp:270±5Time: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