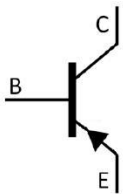


Silicon PNP transistor in a TO-92 Plastic Package.

High breakdown voltage, high current, low saturation voltage.

Low frequency power amplifier applications.



PIN1 Base PIN 2 Collector PIN 3 Emitter

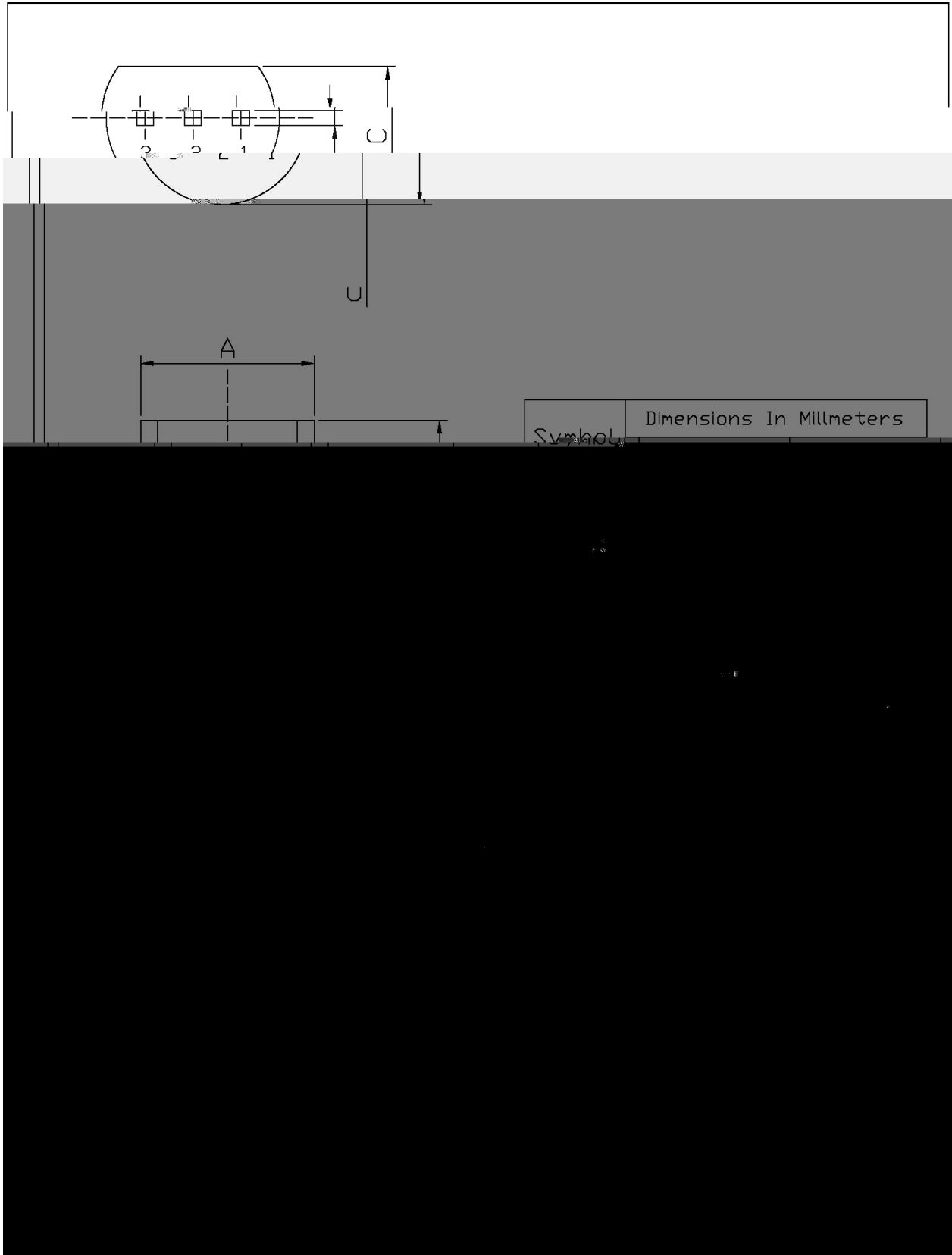
h_{FE} Classifications Symbol	D	E	F
h_{FE} Range	60~120	100~200	160~320

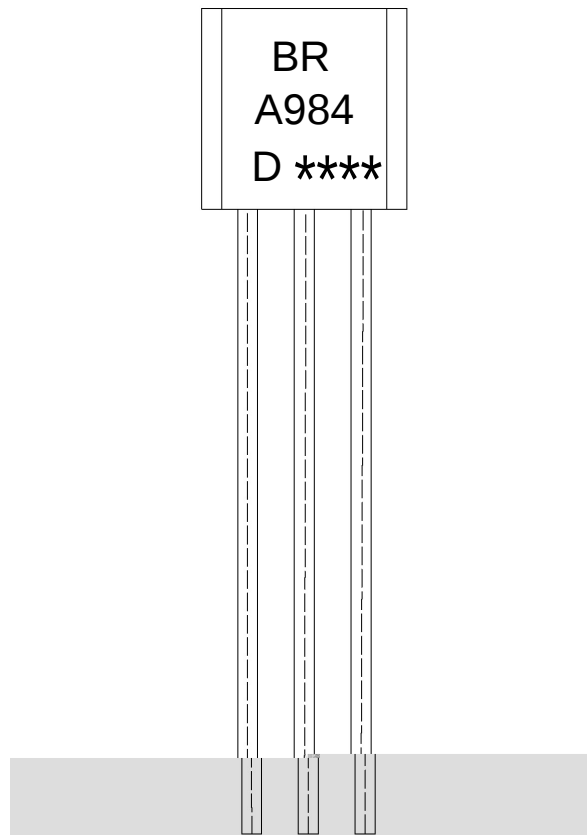
Parameter	Symbol		Rating	Unit
Collector to Base Voltage	V_{CBO}	2SA984	-60	V
		2SA984K	-100	
Collector to Emitter Voltage	V_{CEO}	2SA984	-50	V
		2SA984K	-80	
Emitter to Base Voltage	V_{EBO}		-5.0	V
Collector Current - Continuous	I_C		-500	mA
Collector Current – Continuous(Pulse)	I_{CP}		-800	mA
Collector Power Dissipation	P_C		600	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}	2SA984	$I_C = -10\mu A$ $I_E = 0$	-60			V
		2SA984K		-100			
Collector to Emitter Breakdown Voltage	V_{CEO}	2SA984	$I_C = -1.0mA$ $R_{BE} = \infty$	-50			V
		2SA984K		-80			
Emitter to Base Breakdown Voltage	V_{EBO}		$I_E = -10\mu A$ $I_C = 0$	-5.0			V
Collector Cut-Off Current	I_{CBO}		$V_{CB} = -40V$ $I_E = 0$			-1.0	μA
Emitter Cutoff Current	I_{EBO}		$V_{EB} = -4.0V$ $I_C = 0$			-1.0	μA
DC Current Gain	$h_{FE(1)}$		$V_{CE} = -5.0V$ $I_C = -50mA$	60		320	
	$h_{FE(2)}$		$V_{CE} = -5.0V$ $I_C = -400mA$	35			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$		$I_C = -400mA$ $I_B = -40mA$		-0.25	-0.6	V
Base to Emitter Saturation Voltage	$V_{BE(sat)}$		$I_C = -400mA$ $I_B = -40mA$		-0.9	-1.2	V
Transition Frequency	f_T		$V_{CE} = -10V$ $I_C = -10mA$		120		MHz
Collector Output Capacitance	C_{ob}		$V_{CB} = -10V$ $f = 1.0MHz$		9.0		pF

T0-92

Unit: mm





h_{FE}

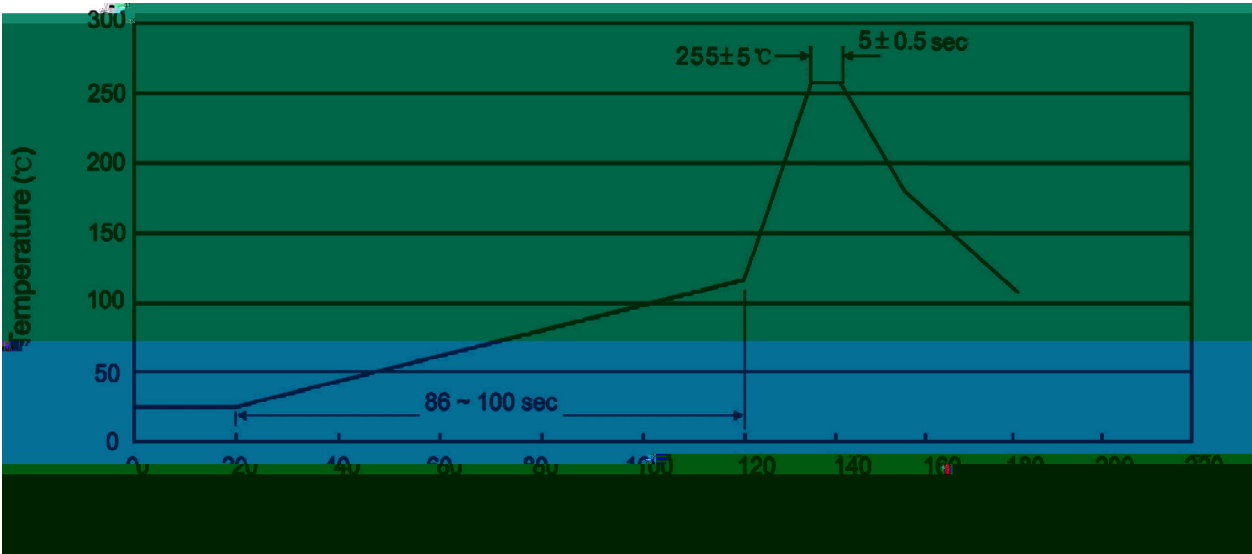
Note:

BR: Company Code.

A984: Product Type.

D: h_{FE} Classifications Symbol

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



Note:

- 1

25 150

60 90sec;

1.Preheating:25~150 , Time:60~90sec.
- 2

255 5

5 0.5sec;

2.Peak Temp.:255 5 , Duration:5 0.5sec.
- 3

2 10 /sec.

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