

/ Descriptions

Silicon PNP transistor in a TO-92 Plastic Package.

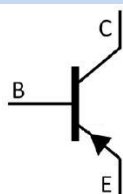
/ Features

High breakdown voltage, high current, low saturation voltage.

/ Applications

Low frequency power amplifier applications.

/ Equivalent Circuit



/ Pinning



PIN1 Base PIN 2 Collector PIN 3 Emitter

/ hFE Classifications & Marking

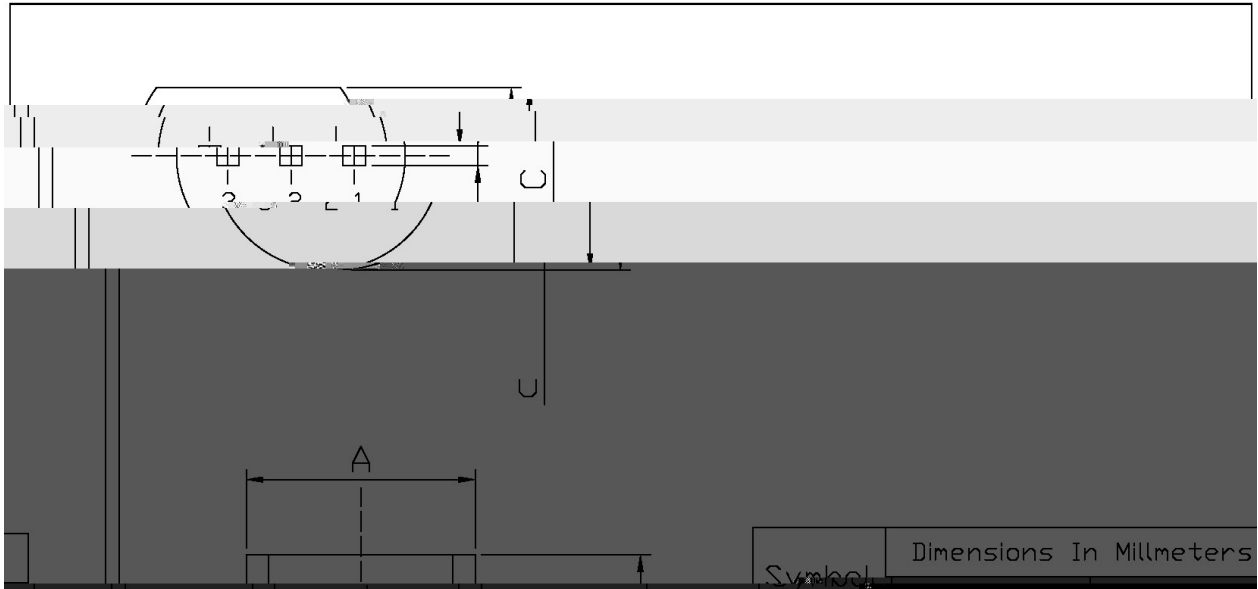
h _{FE} Classifications Symbol	D	E	F
h _{FE} Range	60~120	100~200	160~320

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	

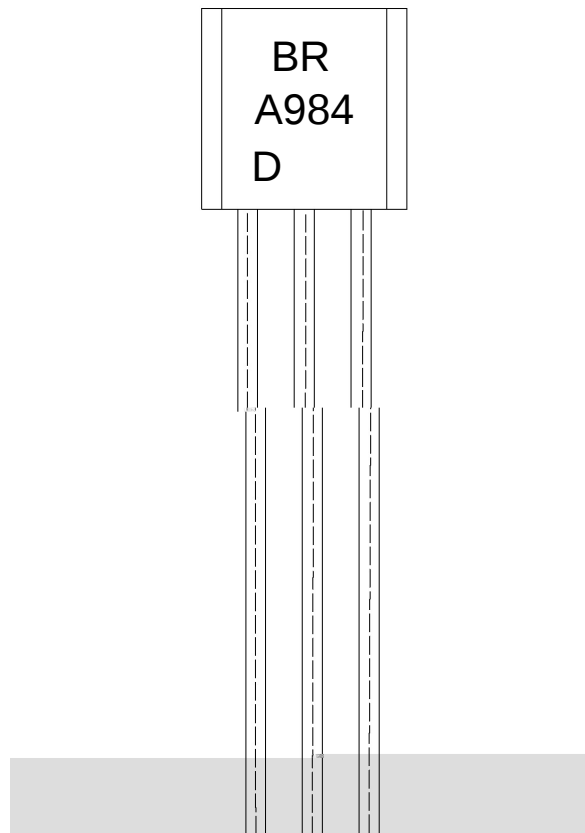
Parameter	Symbol		Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	2SA984	$I_C = -10\mu A \quad I_E = 0$	-60			V
		2SA984K		-100			
Collector to Emitter Breakdown Voltage	V_{CEO}	2SA984	$I_C = -1.0mA \quad R_{BE} = \infty$	-50			V
		2SA984K		-80			
Emitter to Base Breakdown Voltage	V_{EBO}		$I_E = -10\mu A \quad I_C = 0$	-5.0			V
Collector Cut-Off Current	I_{CBO}		$V_{CB} = -40V \quad I_E = 0$			-1.0	μA
Emitter Cutoff Current	I_{EBO}		$V_{EB} = -4.0V \quad I_C = 0$			-1.0	μA
DC Current Gain	$h_{FE(1)}$		$V_{CE} = -5.0V \quad I_C = -50mA$	60		320	
	$h_{FE(2)}$		$V_{CE} = -5.0V \quad I_C = -400mA$	35			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$		$I_C = -400mA \quad I_B = -40mA$		-0.25	-0.6	V
Base to Emitter Saturation							

T0-92

Unit: mm



/ Marking Instructions



h_{FE}

Note:

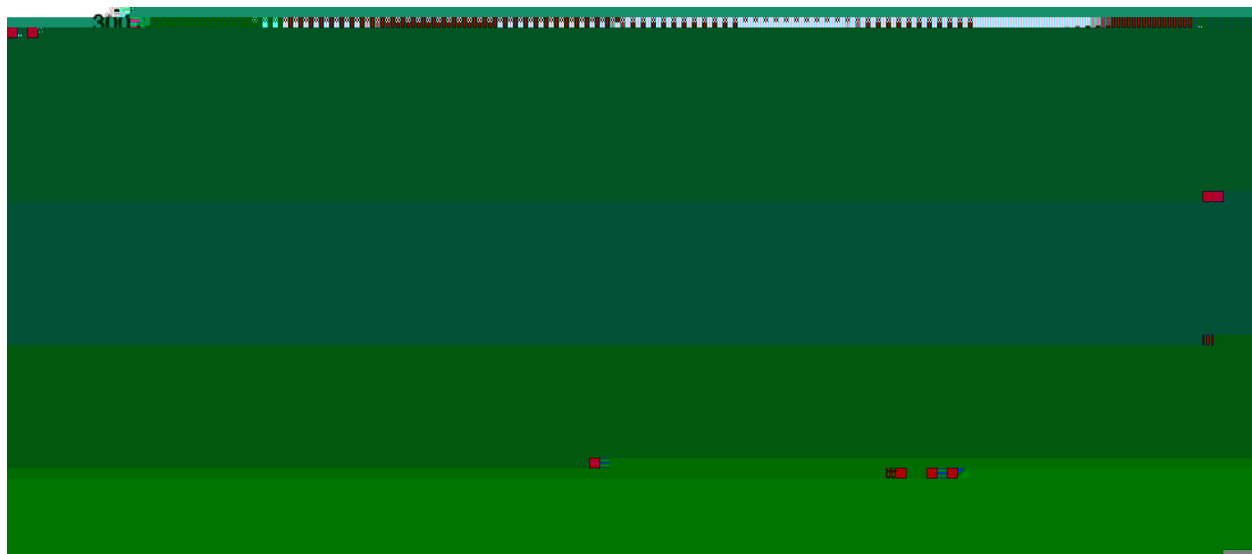
BR: Company Code.

A984: Product Type.

D: h_{FE} Classifications Symbol

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

() / Temperature Profile for Dip Soldering(Pb-Free)



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. |

/ Resistance to Soldering Heat Test Conditions

270 5 10 1 sec. Temp:270±5 Time:10±1 sec

/ Packaging SPEC.

/ BULK

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm3)		
	只袋	袋盒	只盒	盒箱	只箱	袋	盒	箱

/ AMMO

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm3)		
	只纸带	纸带盒	纸带层盒	盒箱	只箱	盒	箱	
							小箱	大箱

/ Notices