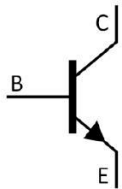


Silicon NPN transistor in a TO-92 Plastic Package.

High I_C , high h_{FE}

Use in general-purpose Speech Synthesizer(Voice Rom) I_C audio output driver stage amplifier applications.

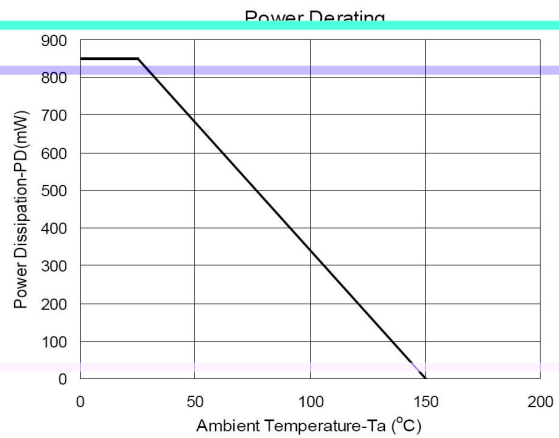
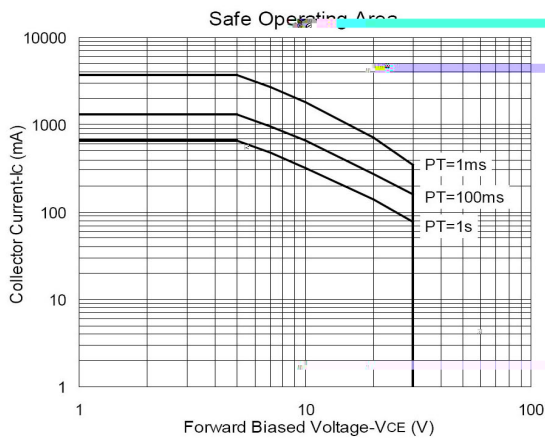
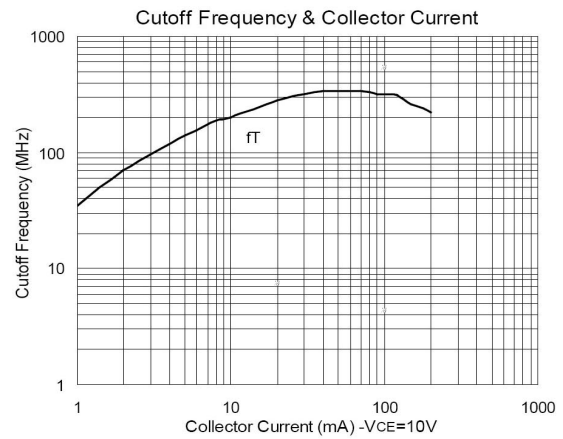
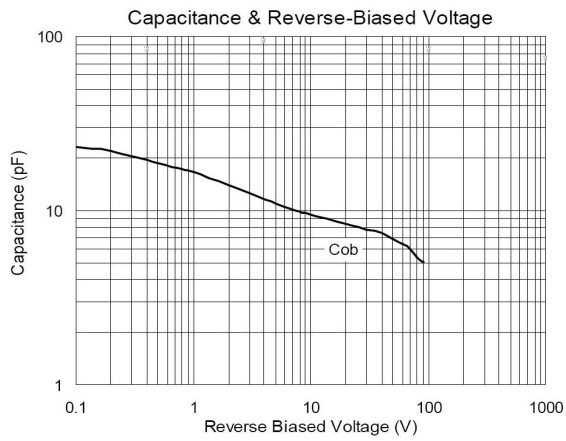
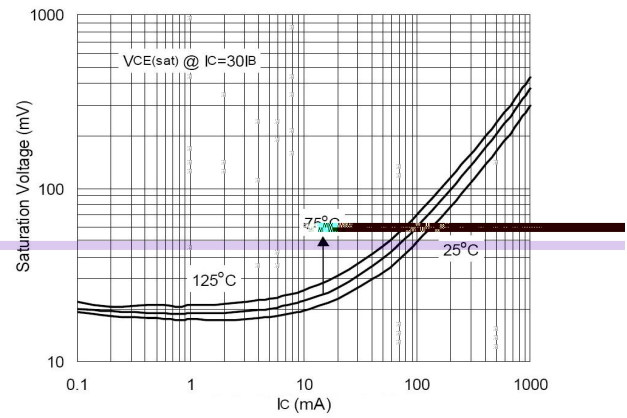
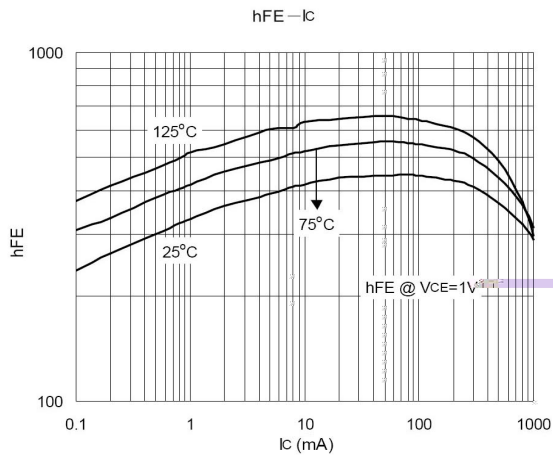


PIN1 Base PIN 2 Collector PIN 3 Emitter

h_{FE} Classifications Symbol	B	C	D
h_{FE} Range	300~550	500~700	650~1000

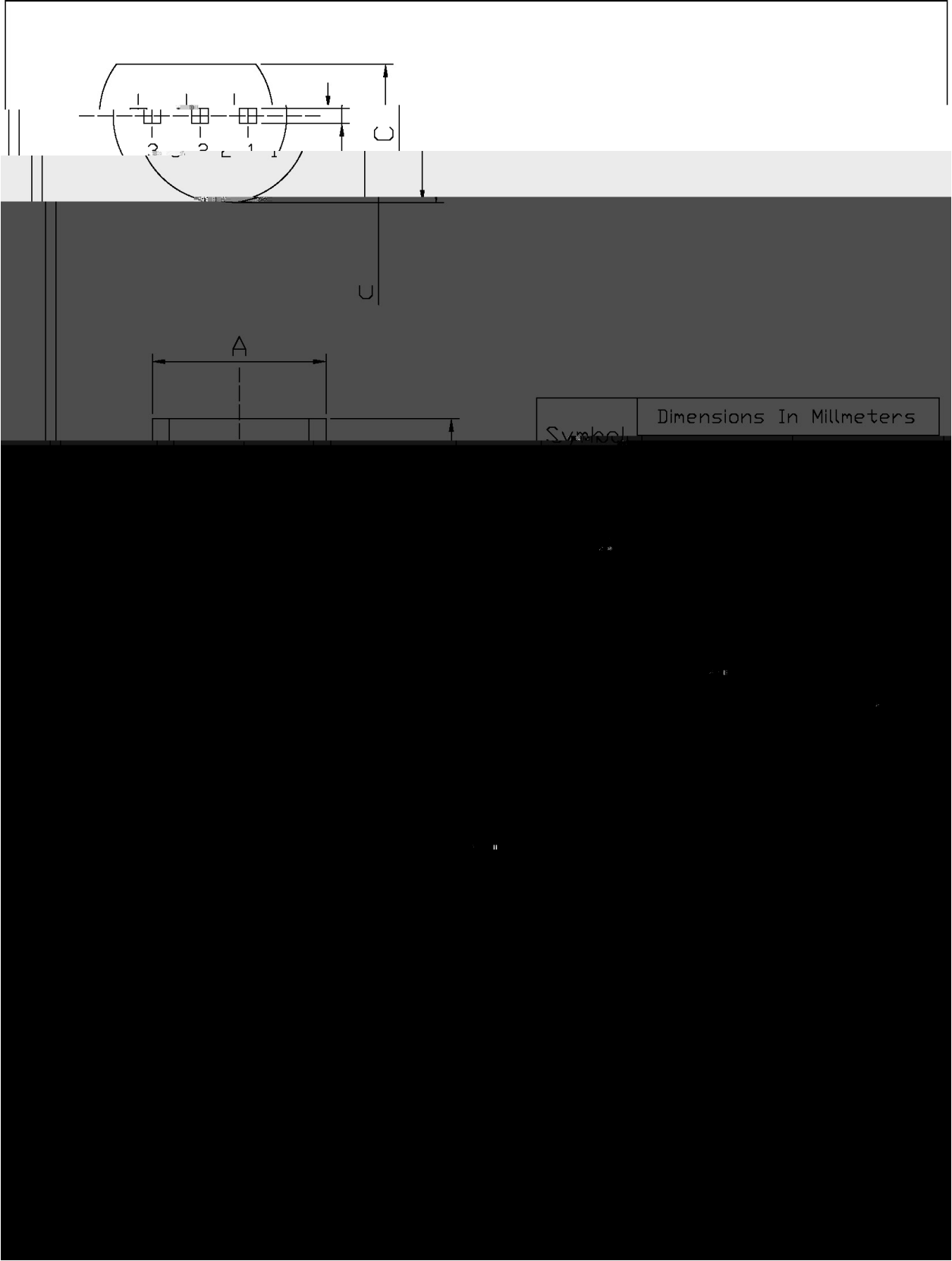
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	40	V
Collector to Emitter Voltage	V_{CEO}	20	V
Emitter to Base Voltage	V_{EBO}	6.0	V
Collector Current - Continuous	I_C	1.0	A
Collector Power Dissipation	P_C	625	mW
Junction Temperature	T_J	150	
Storage Temperature Range	T_{stg}	-55 150	

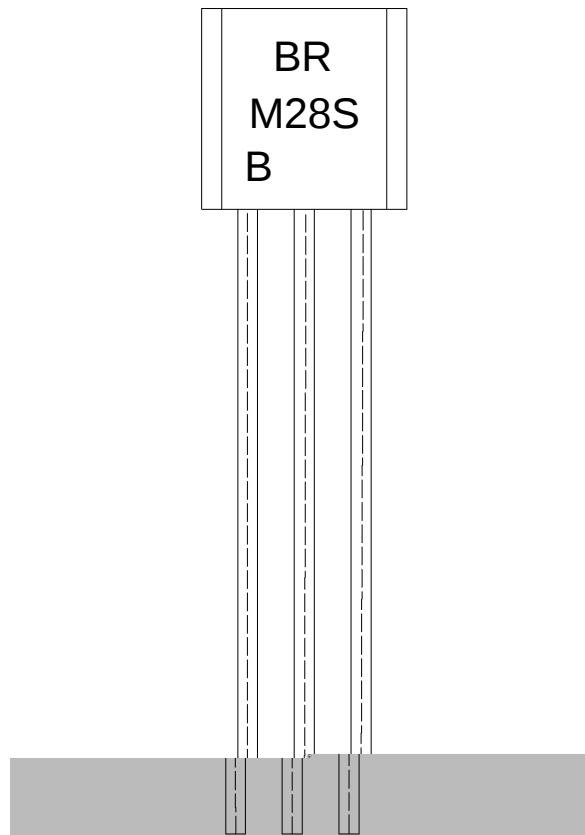
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	$I_C=0.1mA$ $I_E=0$	40			V
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=1.0mA$ $I_B=0$	20			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E=0.1mA$ $I_C=0$	6.0			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=40V$ $I_E=0$			1.0	μA
Collector Cut-Off Current	I_{CEO}	$V_{CE}=20V$ $I_B=0$			5.0	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=5.0V$ $I_C=0$			0.1	μA
DC Current Gain	$h_{FE(1)}$	$V_{CE}=1.0V$ $I_C=100mA$	300		1000	
	$h_{FE(2)}$	$V_{CE}=1.0V$ $I_C=500mA$	300			
	$h_{FE(3)}$	$V_{CE}=10V$ $I_C=300mA$	300			
	$h_{FE(4)}$	$V_{CE}=1.0V$ $I_C=1.0mA$	290			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=600mA$ $I_B=20mA$			0.55	V
Transition Frequency	f_T	$V_{CE}=10V$ $f=30MHz$ $I_C=50mA$	100			MHz



T0-92

Unit: mm





Note:

BR: Company Code.

M28S: Product Type.

B: 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

Time:10±1 sec

/ 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