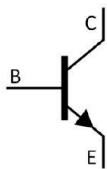


TO-92 NPN Silicon NPN transistor in a TO-92 Plastic Package.

Small output capacitance, low noise figure.

AM converter ,AM/FM IF amplifier and local oscillator of AM/FM tuner.

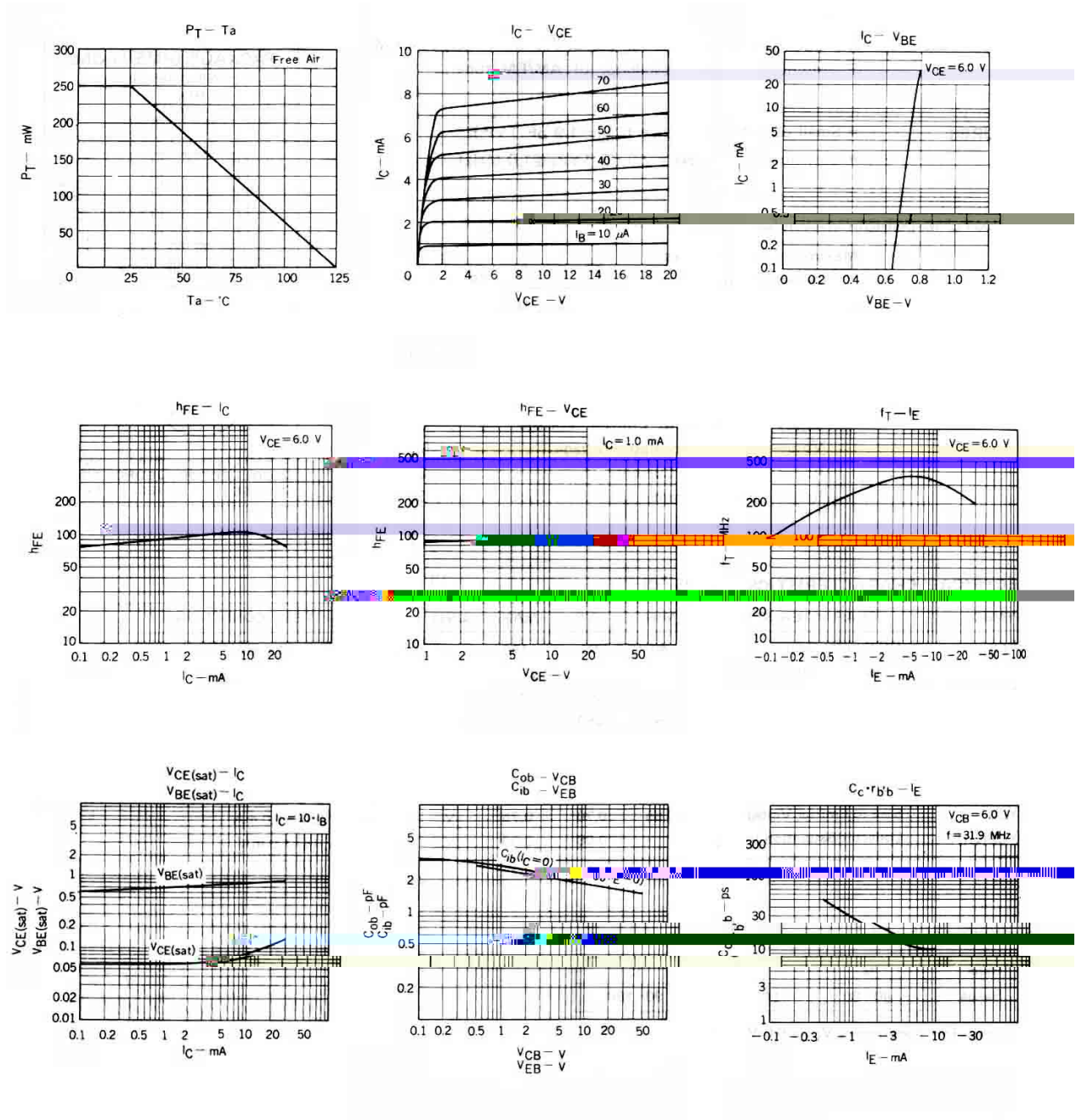


PIN1 Base PIN 2 Collector PIN 3 Emitter

h _{FE} Classifications Symbol	M	L	K
h _{FE} Range	40~80	60~120	90~180

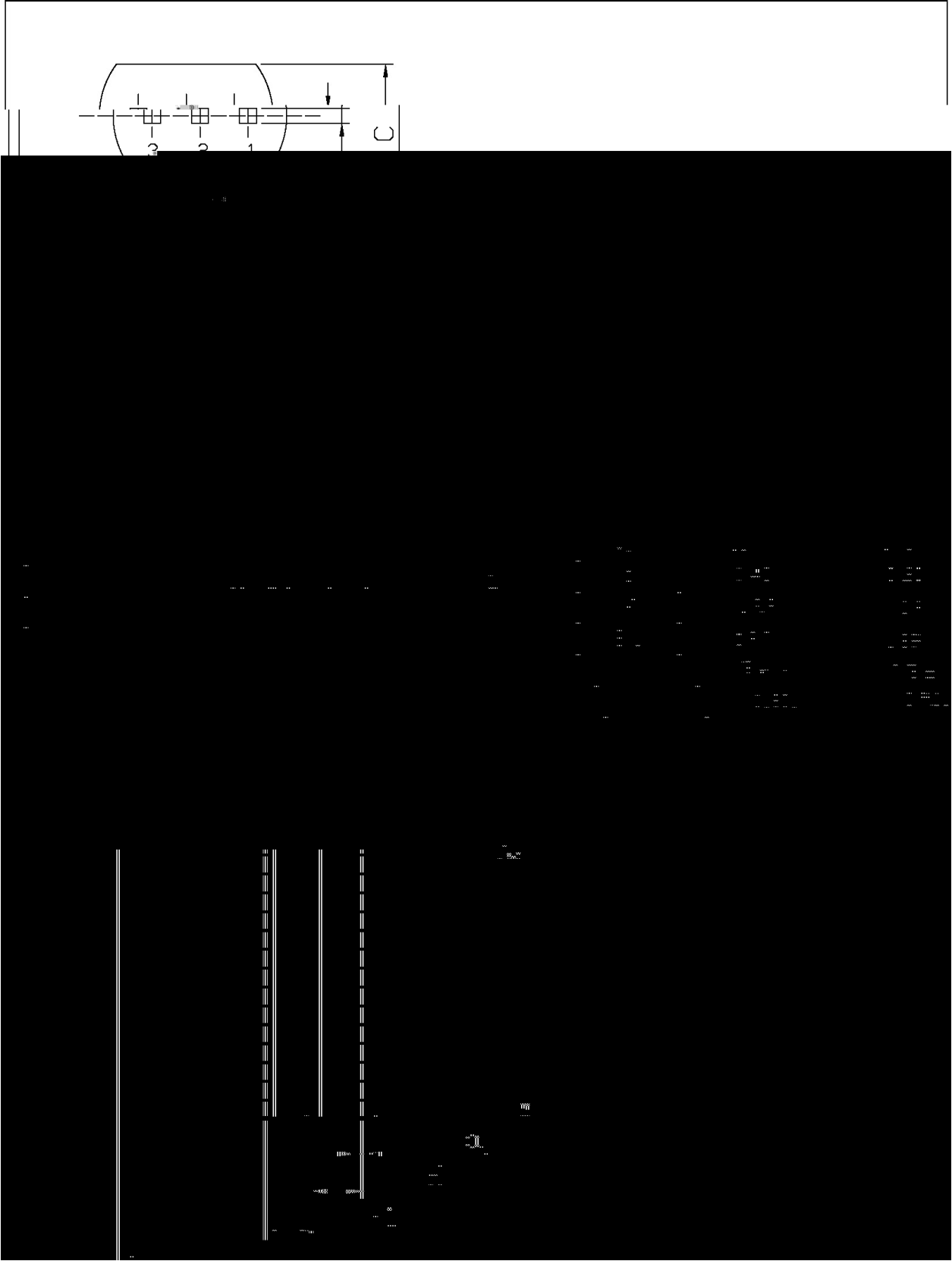
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	50	V
Collector to Emitter Voltage	V_{CEO}	30	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current - Continuous	I_C	30	mA
Base Current – Continuous	I_B	30	mA
Collector Power Dissipation	P_C	250	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55 150	°C

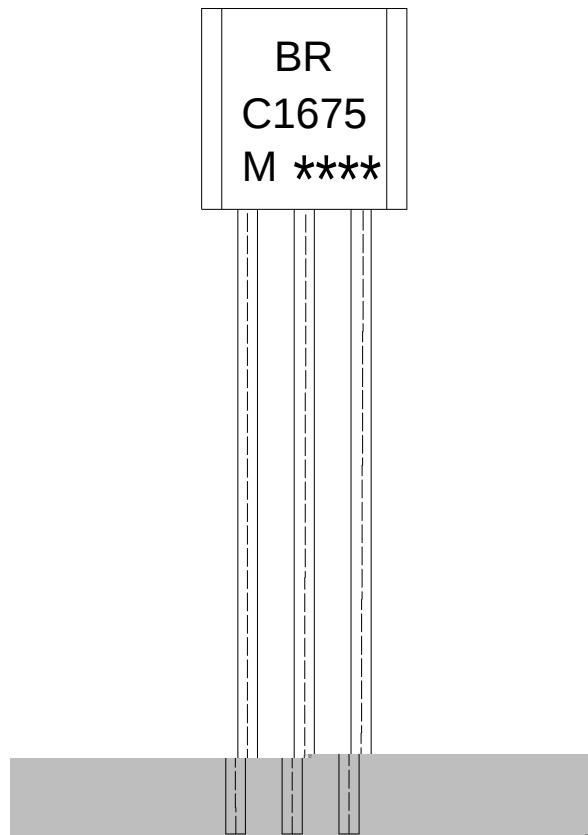
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I_{CBO}	$V_{CB}=50V$ $I_E=0$			0.1	A
Collector Cut-Off Current	I_{CEO}	$V_{EB}=5.0V$ $I_C=0$			0.1	A
DC Current Gain	h_{FE}	$V_{CE}=6.0V$ $I_C=1.0mA$	40	90	180	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=10mA$ $I_B=1.0mA$		0.08	0.3	V
Base to Emitter Voltage	V_{BE}	$V_{CE}=6.0V$ $I_C=1.0mA$		0.70	0.75	V
Transition Frequency	f_T	$V_{CE}=6.0V$ $I_C=1.0mA$	150	250		MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=6.0V$ $I_E=0mA$ $f=1.0MHz$		1.9	2.2	pF
Noise Figure	NF	$V_{CE}=6.0V$ $I_E=-1.0mA$ $R_g=500\Omega$ $f=1.0MHz$		2.0	4.0	dB
Collector Base Time Constant	$C_c \cdot r_{bb'}$	$V_{CE}=6.0V$ $I_E=-10mA$ $f=31.9MHz$		10	15	pS



TO-92

Unit: mm





BR:

C1675

M: h_{FE}

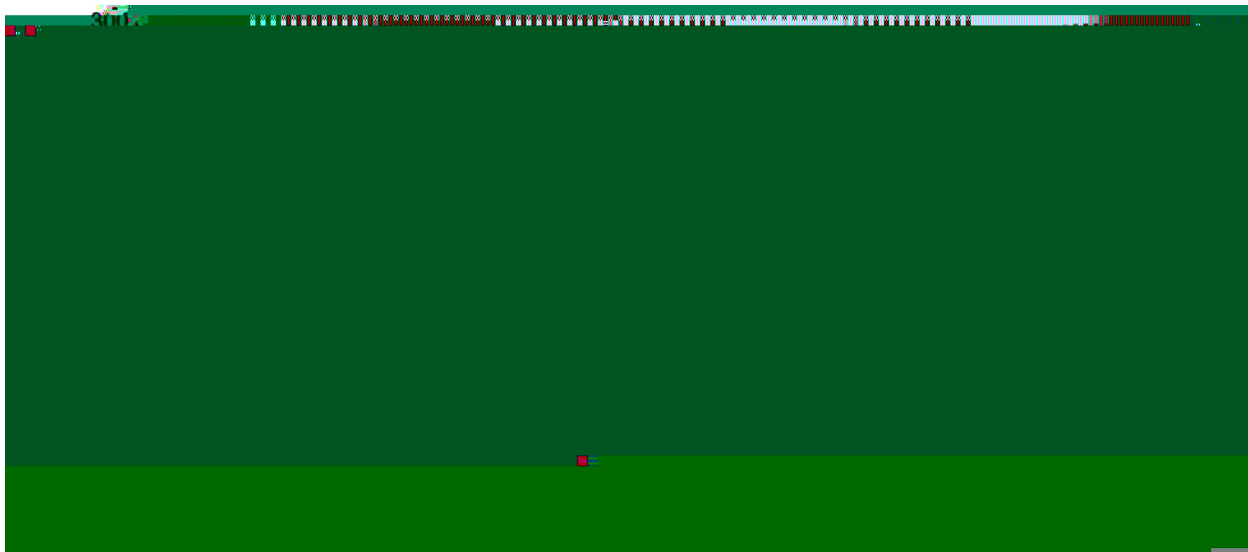
Note:

BR: Company Code.

C1675: Product Type.

M: 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