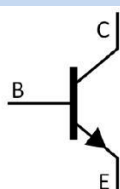


WR0<5 QSQ Silicon NPN transistor in a TO-92 Plastic Package.

High transition frequency f_T .

Optimum for RF amplification of FM/AM radios

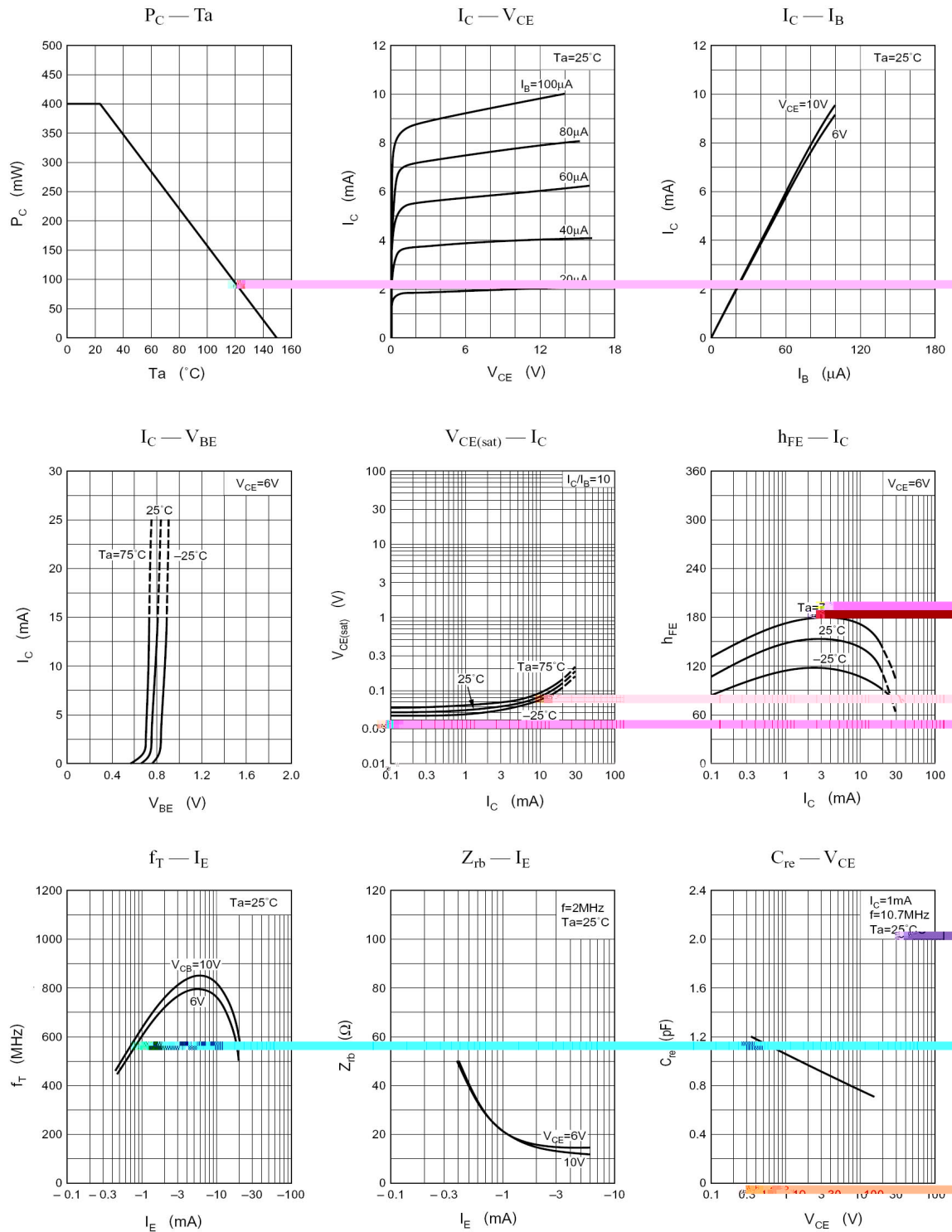


PIN1 Base PIN 2 Collector PIN 3 Emitter

h_{FE} Classifications Symbol	B	C	D
h_{FE} Range	40~110	65~160	100~260

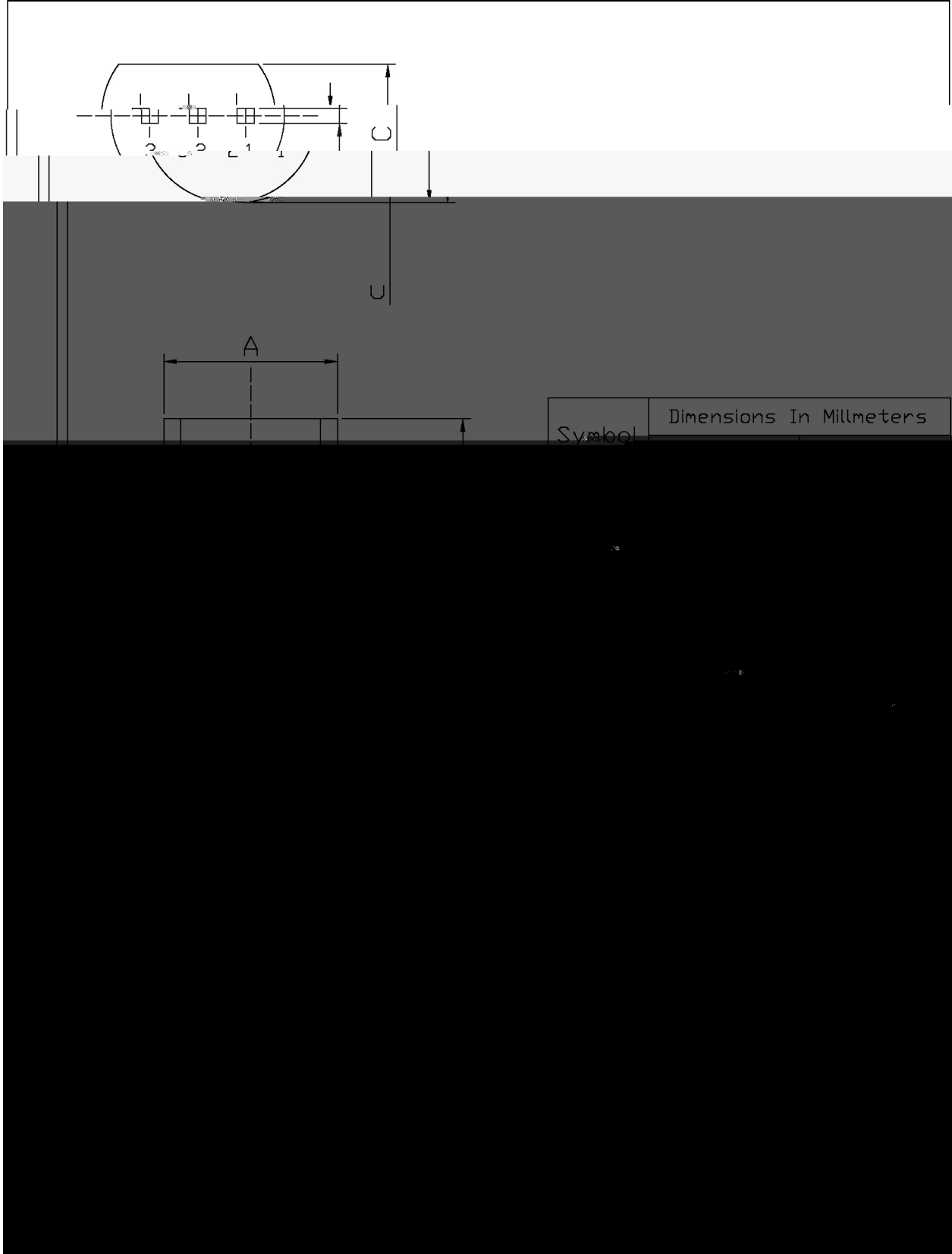
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	30	V
Collector to Emitter Voltage	V_{CEO}	20	V
Emitter to Base Voltage	V_{EBO}	3	V
Collector Current - Continuous	I_C	20	mA
Collector Power Dissipation	P_C	400	mW
Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{stg}	-55~150	°C

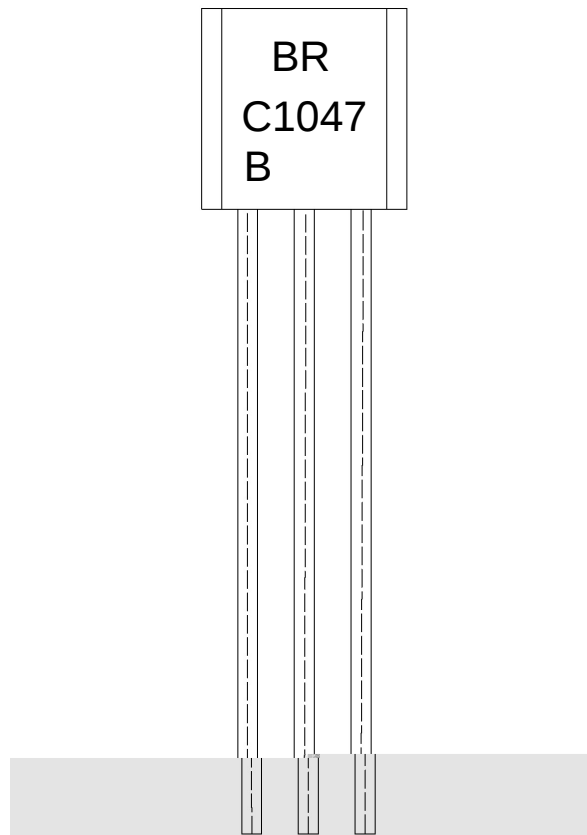
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	$I_C=10\text{ A}$ $I_E=0$	30			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E=10\text{ A}$ $I_C=0$	3			V
DC Current Gain	h_{FE}	$V_{CB}=6V$ $I_C=1.0mA$	40		260	
Base to Emitter Voltage	V_{BE}	$V_{CB}=6V$ $I_C=1.0mA$		0.72		V
Transition Frequency	f_T	$V_{CB}=6V$ $I_E=-1mA$ $f=200MHz$	450	650		MHz
Common Emitter Reverse Transfer Capacitance	C_{re}	$V_{CE}=6V$ $I_C=1mA$ $f=10.7MHz$		0.8	1	pF
Noise Figure	NF	$V_{CB}=6V$ $I_E=-1mA$ $f=100MHz$		3.5	5	dB
Power Gain	PG	$V_{CB}=6V$ $I_E=-1mA$ $f=100MHz$	20			dB



T0-92

Unit: mm





EU:

F437:

E: h_{FE}

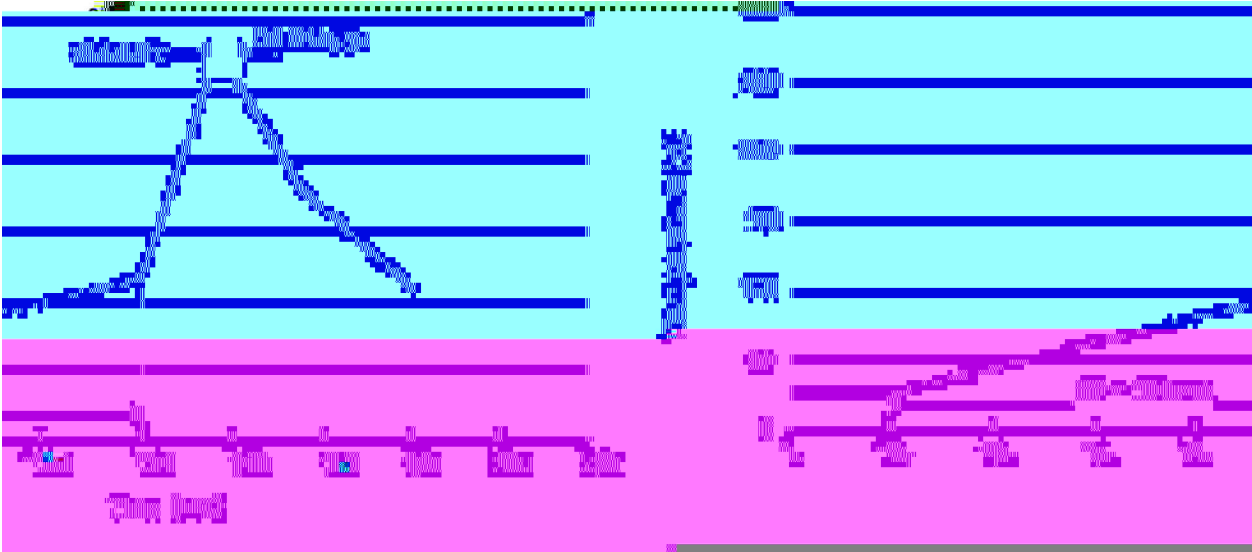
Note:

BR: Company Code.

C1047: Product Type.

B: h_{FE} Classifications Symbol

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



- 1

25

150%

60

90sec;

2

255[±]5%

5[±]0.5sec;

3

2

10%/sec.
- Note:

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	Units					Dimension		(unit mm3)

/ AMMO

Package Type	Units					Dimension		(unit mm3)