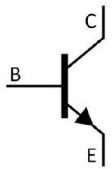


Silicon NPN transistor in a TO-92 Plastic Package.

Small noise figure, high power gain, high f_T .

UHF low-noise amplifiers, wide-band amplifiers.



PIN1 Collector PIN 2 Emitter PIN 3 Base

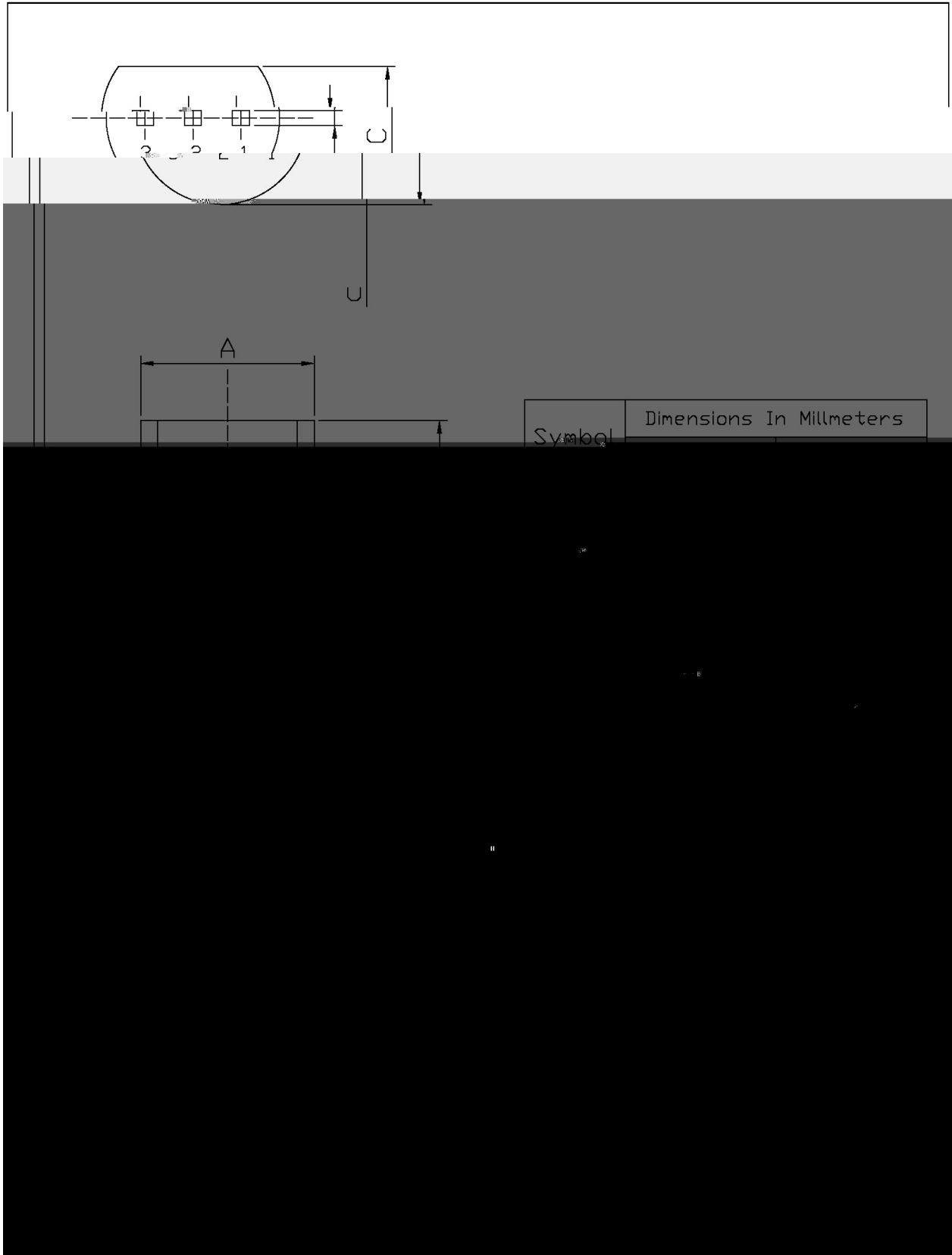
h_{FE} Classifications Symbol	C	D	E
h_{FE} Range	40~80	60~120	100~200

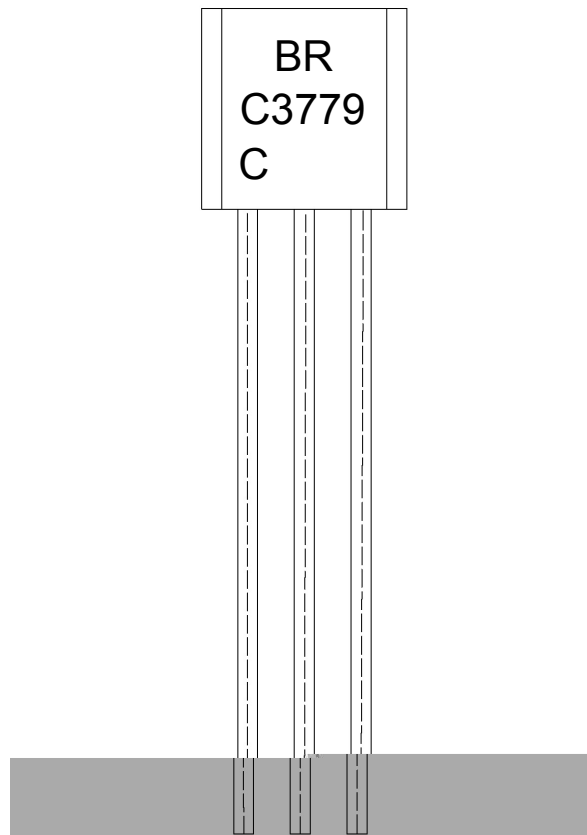
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	20	V
Collector to Emitter Voltage	V_{CEO}	12	V
Emitter to Base Voltage	V_{EBO}	3.0	V
Collector Current - Continuous	I_C	100	mA
Base Current - Continuous	I_B	40	mA
Collector Power Dissipation	P_C	600	mW
Junction Temperature	T_J	150	
Storage Temperature Range	T_{stg}	-55 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I_{CBO}	$V_{CB}=12V$ $I_E=0$			1.0	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=2.0V$ $I_C=0$			10	μA
DC Current Gain	h_{FE}	$V_{CE}=10V$ $I_C=20mA$	40		200	
Transition Frequency	f_T	$V_{CE}=10V$ $I_C=20mA$		5.0		GHz
Output Capacitance	C_{ob}	$V_{CB}=10V$ $f=1.0MHz$		1.0		pF
Reverse Transfer Capacitance	C_{re}	$V_{CB}=10V$ $f=1.0MHz$		0.7		pF
Forward Transfer Gain	$ S_{21e} ^2$	$V_{CE}=10V$ $f=0.9GHz$ $I_C=20mA$	8.5	10		dB
Maximum Available Power Gain	MAG	$V_{CE}=10V$ $f=0.9GHz$ $I_C=20mA$		14		dB
Noise Figure	NF	$V_{CE}=10V$ $f=0.9GHz$ $I_C=5.0mA$		1.5	3.0	dB

T0-92

Unit: mm





Note:

BR: Company Code.

C3779: Product Type.

C: 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