

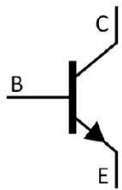
Rev.D Dec.-2015

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

, $h_{FE}$

High gain, good linearity of  $h_{FE}$ .

TV final picture IF amplifier applications.

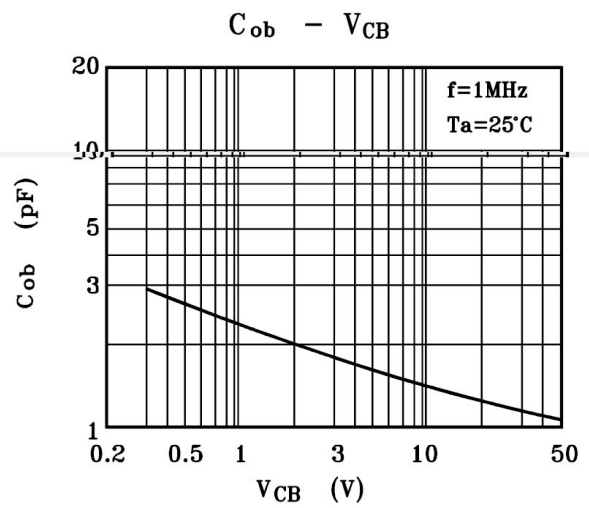
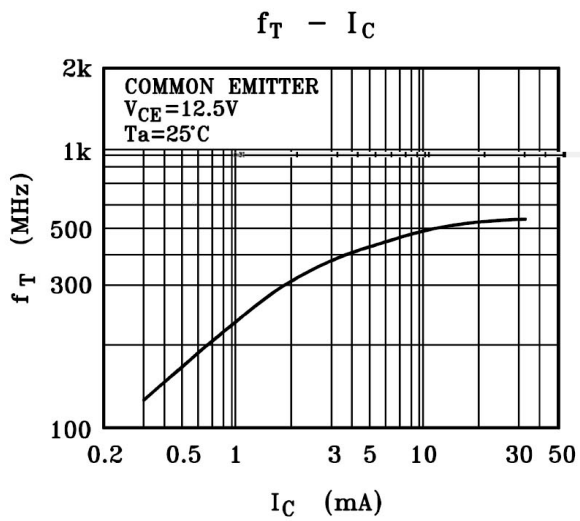
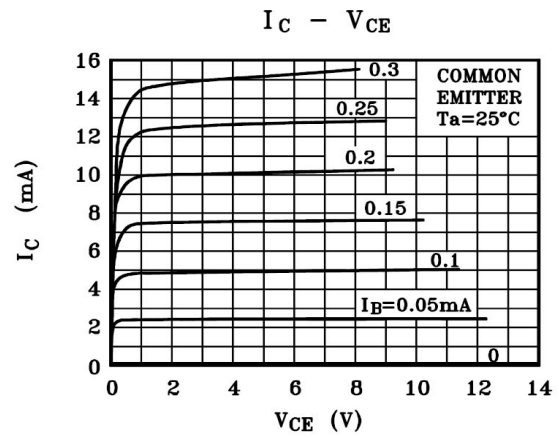
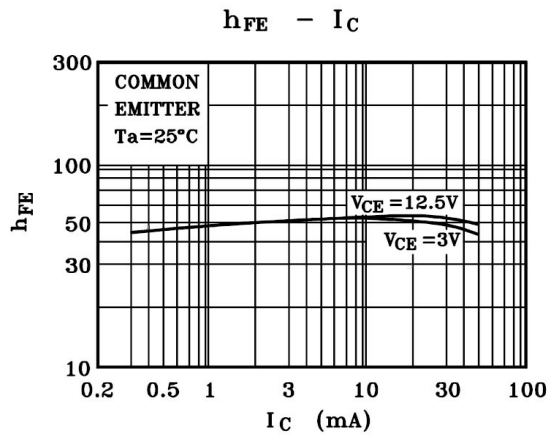


PIN1   Collector      PIN 2   Emitter      PIN 3   Base

See Marking Instructions.

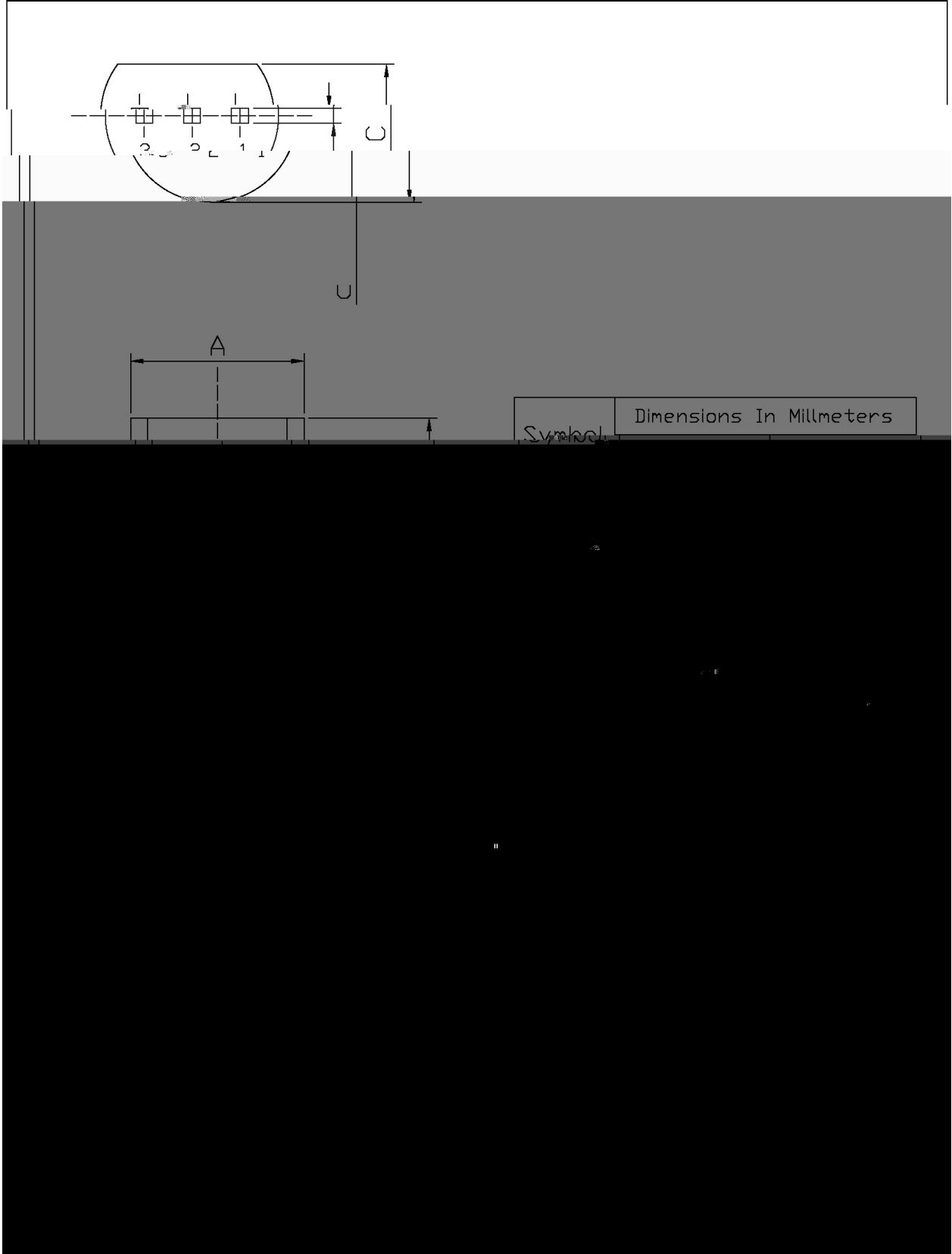
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	$V_{CBO}$	30	V
Collector to Emitter Voltage	$V_{CEO}$	25	V
Emitter to Base Voltage	$V_{EBO}$	4.0	V
Collector Current - Continuous	$I_C$	50	mA
Emitter Current - Continuous	$I_E$	-50	mA
Collector Power Dissipation	$P_C$	300	mW
Junction Temperature	$T_j$	150	
Storage Temperature Range	$T_{stg}$	-55~150	

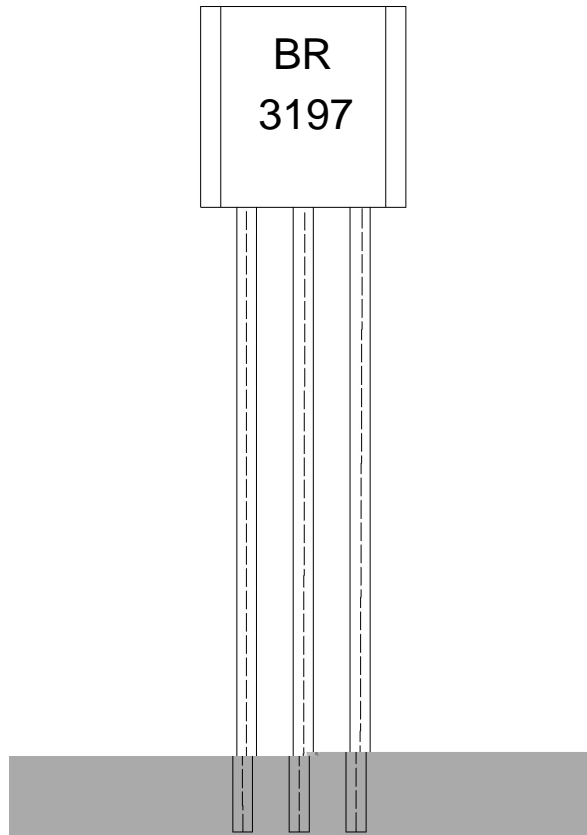
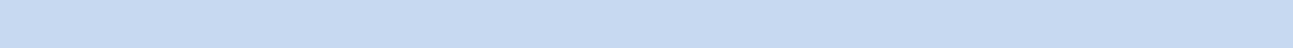
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Emitter Breakdown Voltage	$V_{CEO}$	$I_C=10mA$ $I_B=0$	25			V
Collector Cut-Off Current	$I_{CBO}$	$V_{CB}=30V$ $I_E=0$			0.1	A
Emitter Cut-Off Current	$I_{EBO}$	$V_{EB}=3.0V$ $I_C=0$			0.1	A
DC Current Gain	$h_{FE}$	$V_{CE}=12.5V$ $I_C=12.5mA$	40		240	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=15mA$ $I_B=1.5mA$			0.2	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=15mA$ $I_B=1.5mA$			1.5	V
Transition Frequency	$f_T$	$V_{CE}=12.5V$ $I_C=12.5mA$	300			MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB}=10V$ $I_E=0$ $f=30MHz$	0.8		2.0	pF
Reverse Transfer Capacitance	$C_{re}$	$V_{CC}=12.5V$ $I_E=-12.5mA$ $f=45MHz$	28		36	dB
Collector- Base Time Constant	$C_{c.fbb'}$	$V_{CB}=10V$ $I_E=-1.0mA$ $f=30MHz$			25	ps



T0-92

Unit: mm





BR:

3197

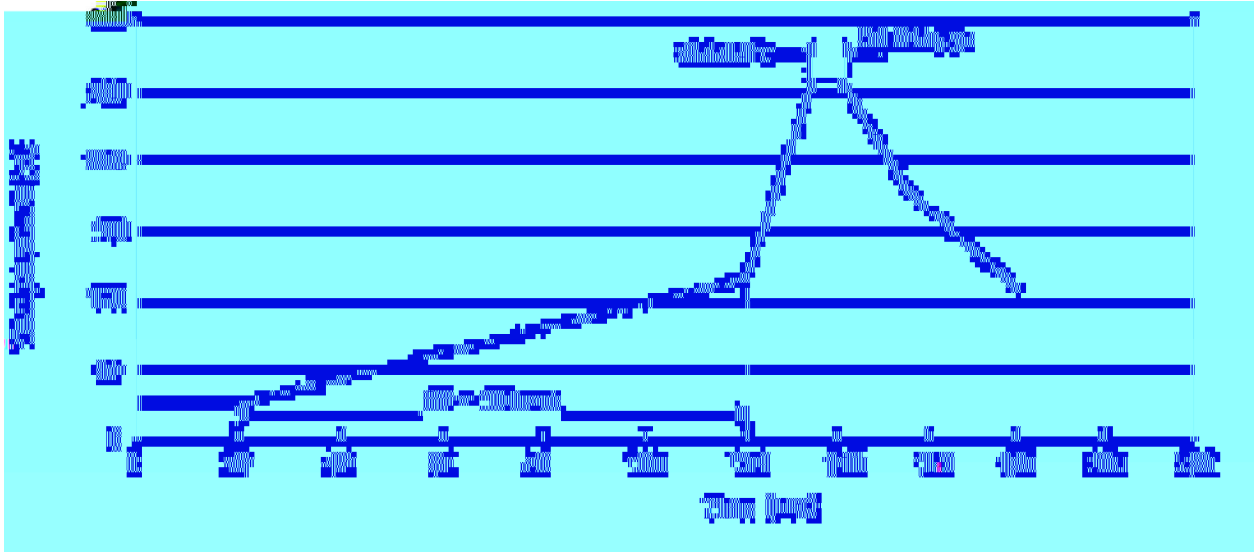
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Note:

BR:           Company Code.

3197:        Product Type.

\*\*\*\*:        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)		
	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