

/ Descriptions

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

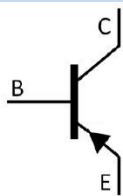
/ Features

， ， KTC3199
Excellent h_{FE} linearity, low noise, complementary pair with KTC3199.

/ Applications

General purpose and switching application.

/ Equivalent Circuit



/ Pinning



PIN1 Base PIN 2 Collector PIN 3 Emitter

/ h_{FE} Classifications & Marking

h_{FE} Classifications Symbol	O	Y	GR
h_{FE} Range	70~140	120~240	200~400

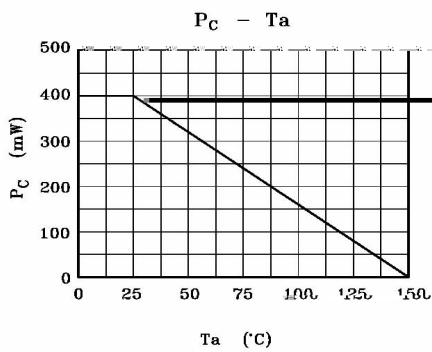
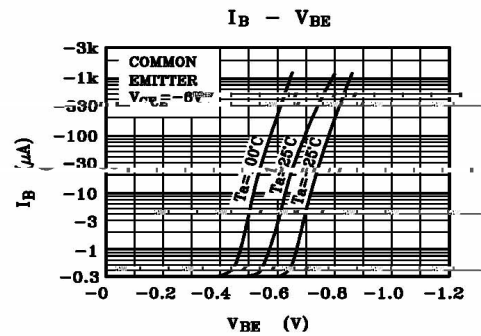
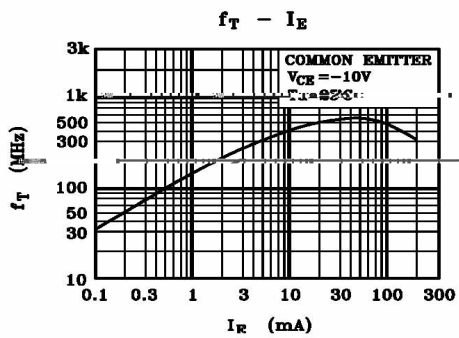
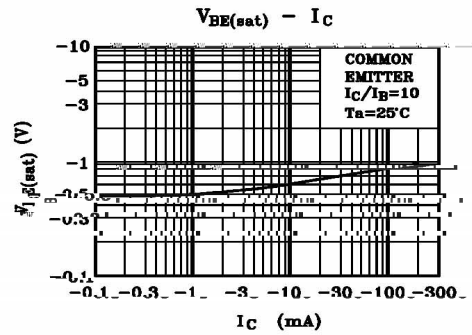
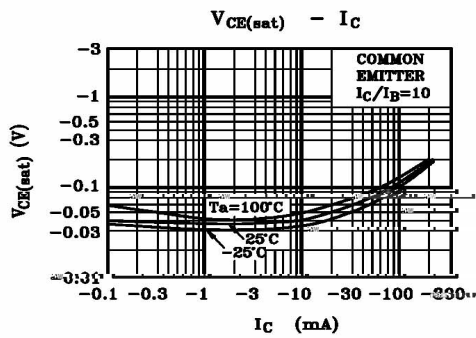
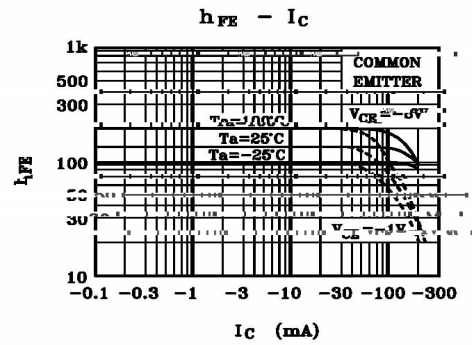
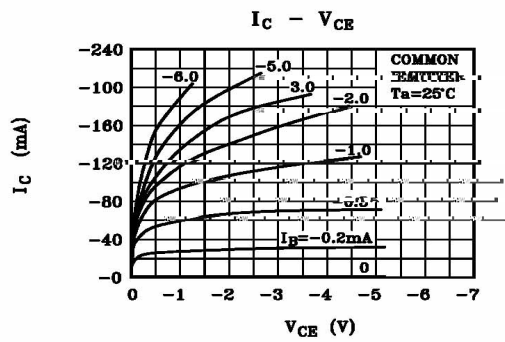
/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V	-50	V
Collector to Emitter Voltage	V _{CEO}	-50	V
Emitter to Base Voltage	V _{EBO}	-5.0	V
Collector Current - Continuous	I _C	-150	mA
Emitter Current - Continuous	I _E	150	mA
Collector Power Dissipation	P _C	400	mW
Junction Temperature	T _J	150	
Storage Temperature Range	T _{stg}	-55 150	

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I _{CBO}	V _{CB} =-50V I _E =0			-0.1	A
Emitter Cut-Off Current	I _{EBO}	V _{EB} =-5.0V I _C =0			-0.1	A
DC Current Gain	h _{FE}	V _{CE} =-6.0V I _C =-2.0mA	70		400	
Collector to Emitter Saturation Voltage	V _{CE(sat)}	I _C =-100mA I _B =-10mA		-0.1	-0.3	V
Transition Frequency	f _T	V _{CE} =-10V I _C =-1.0mA	80			MHz
Collector Output Capacitance	C _{ob}	V _{CB} =-10V f=1.0MHz I _E =0		4.0	7.0	pF
Noise Figure	NF	V _{CE} =-6.0V I _C =-0.1mA f=1.0KHz R _g =10K		1.0	10	dB

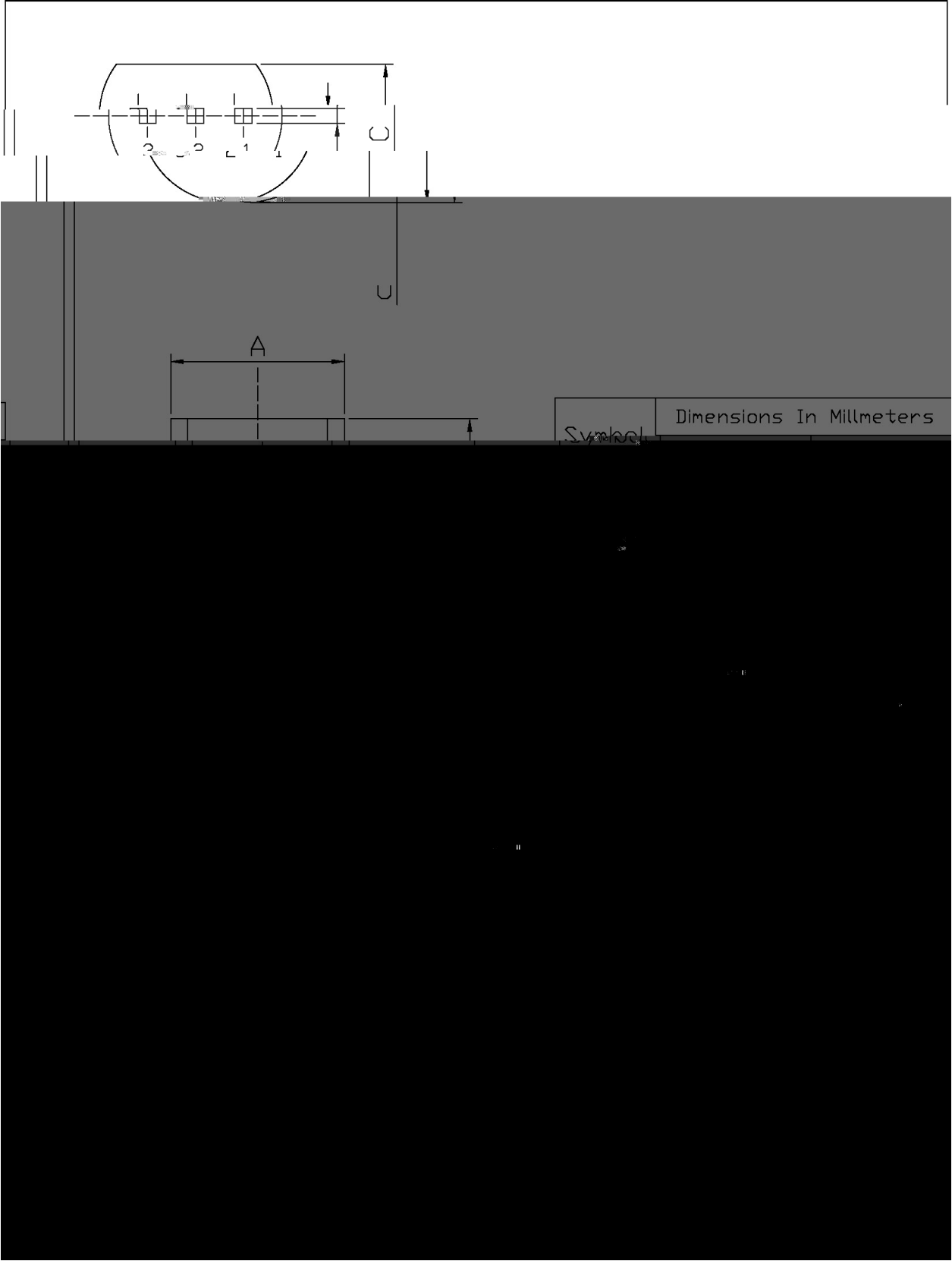
/ Electrical Characteristic Curve



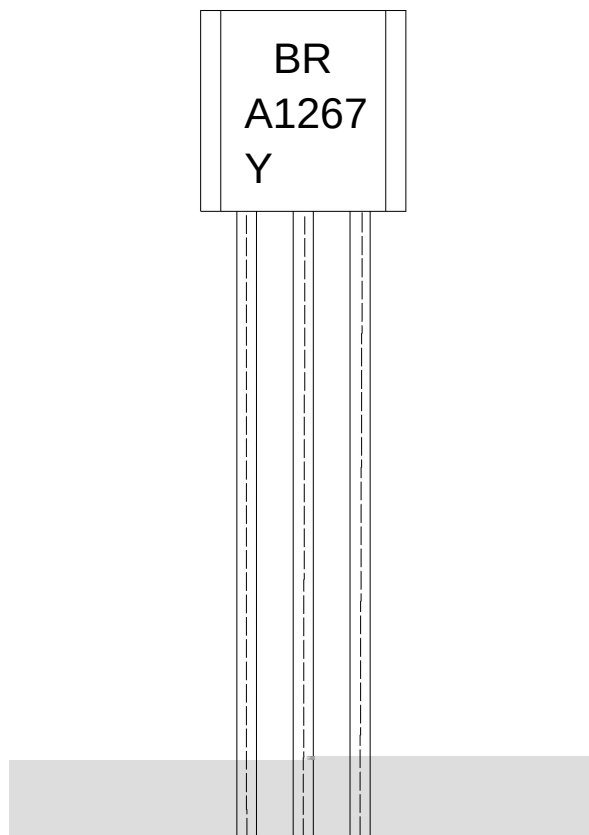
/ Package Dimensions

T0-92

Unit: mm



/ Marking Instructions



BR:

A1267

Y: h_{FE}

Note:

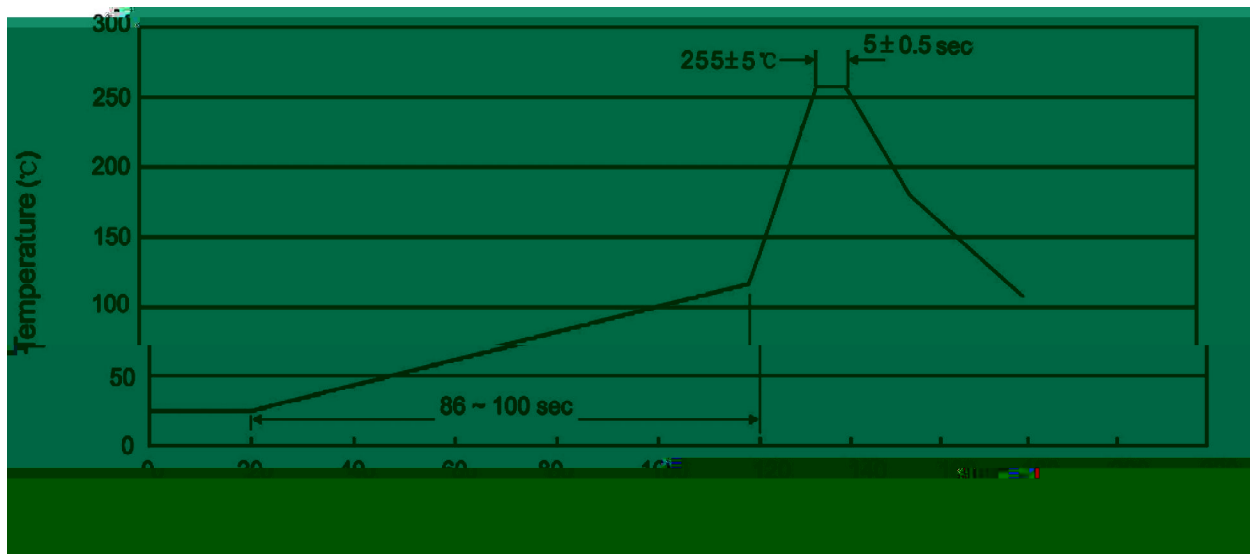
BR: Company Code.

A1267: Product Type.

Y: h_{FE} Classifications Symbol

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

() / Temperature Profile for Dip Soldering(Pb-Free)



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. |

/ Resistance to Soldering Heat Test Conditions

270±5 10±1 sec. Temp:270±5 Time:10±1 sec

/ Packaging SPEC.

/ 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

/ Notices