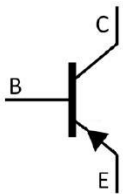


Silicon PNP transistor in a TO-92 Plastic Package.

Complementary pair with KSD1616(A).

Audio frequency power amplifier, medium speed switching.

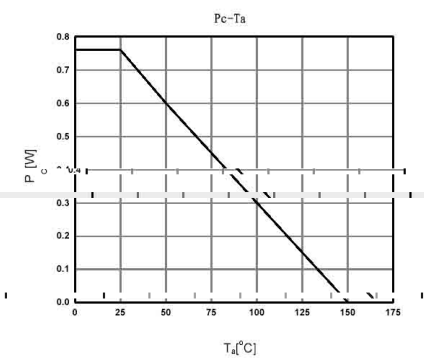
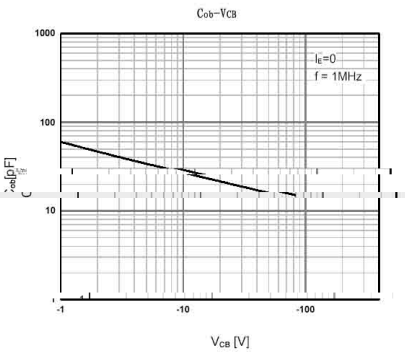
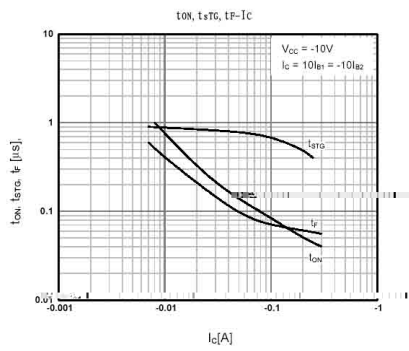
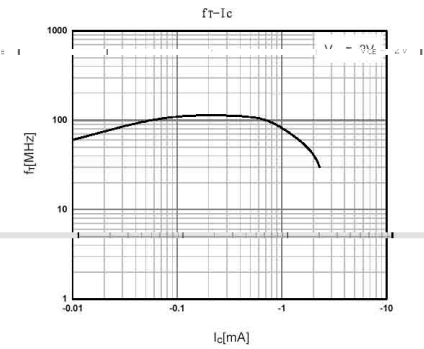
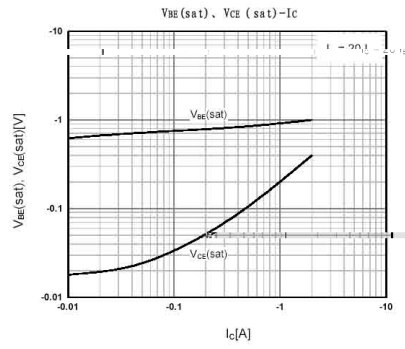
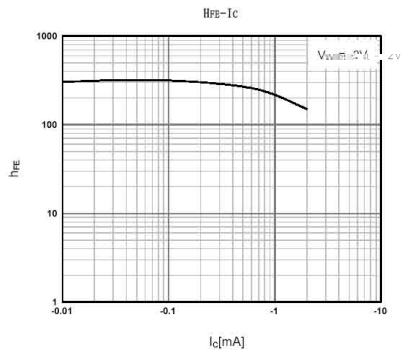
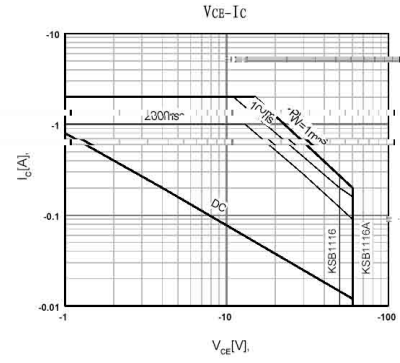
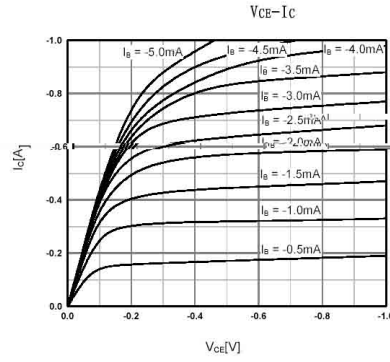
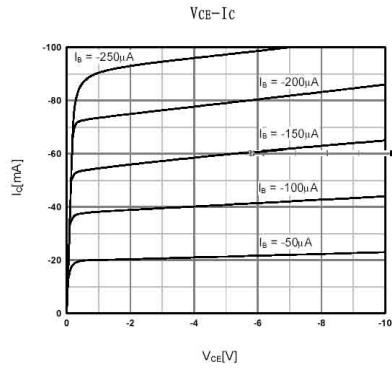


PIN1 Base PIN 2 Collector PIN 3 Emitter

h_{FE} Classifications Symbol	Y	G	L
h_{FE} Range	135~270	200~400	300~600

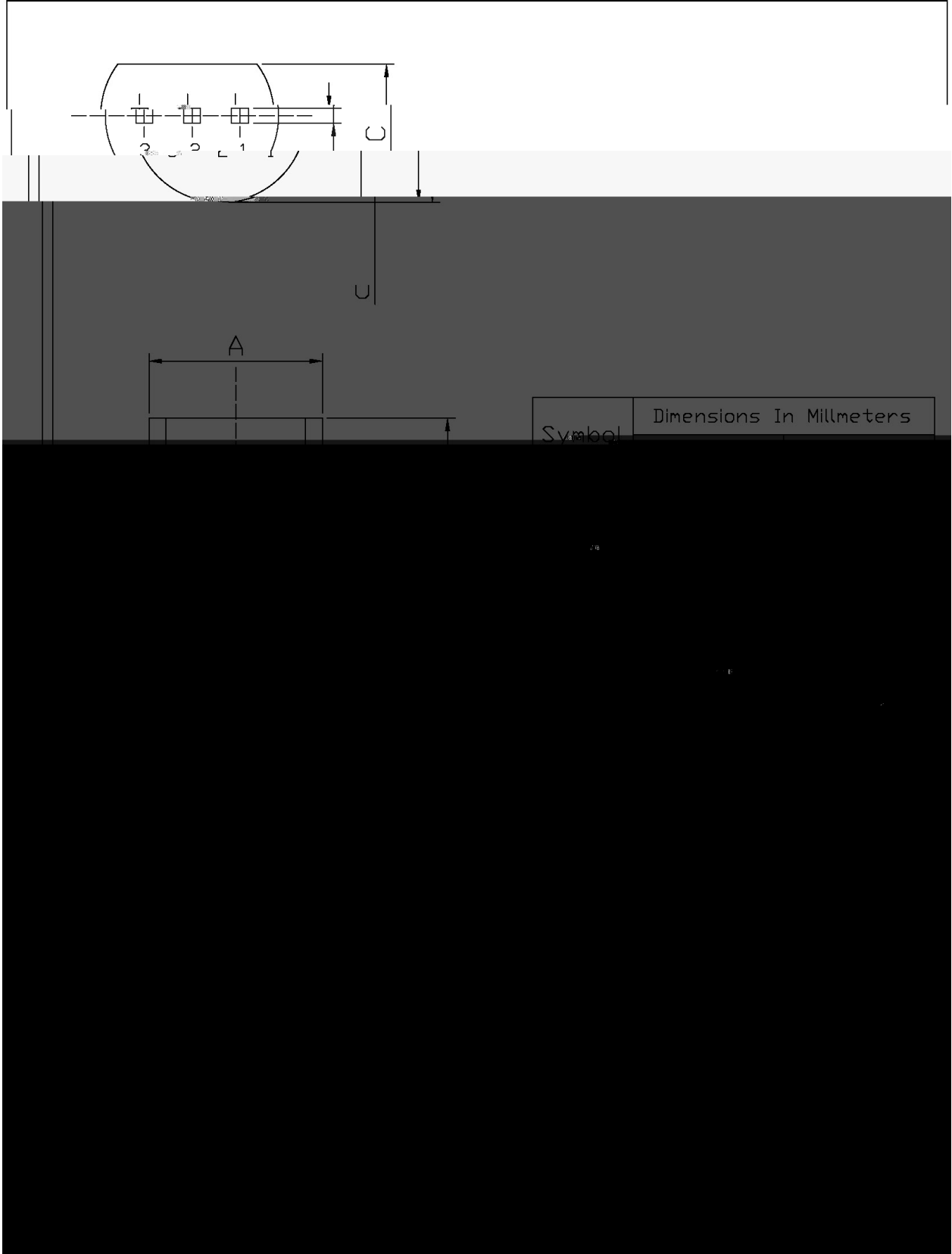
Parameter	Symbol		Rating	Unit
Collector to Base Voltage	V_{CBO}	KSB1116	-60	V
		KSB1116A	-120	
Collector to Emitter Voltage	V_{CEO}	KSB1116	-50	V
		KSB1116A	-60	
Emitter to Base Voltage	V_{EBO}		-6.0	V
Collector Current - Continuous	I_C		-1.0	A
Base Current – Continuous	I_B		-2.0	A
Collector Power Dissipation	P_C		750	mW
Junction Temperature	T_j		150	
Storage Temperature Range	T_{stg}		-55 150	

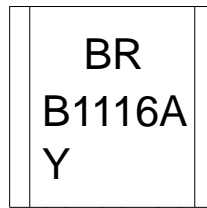
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-60V$ $I_E=0$			-0.1	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=-6.0V$ $I_C=0$			-0.1	μA
DC Current Gain	$h_{FE(1)}$	KSB1116	$V_{CE}=-2.0V$ $I_C=-100mA$	135	600	
		KSB1116A				
	$h_{FE(2)}$	$V_{CE}=-2.0V$ $I_C=-1.0A$	81			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-1.0A$ $I_B=-50mA$		-0.2	-0.3	V
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=-1.0A$ $I_B=-50mA$		-0.9	-1.2	V
Base to Emitter On Voltage	$V_{BE(ON)}$	$V_{CE}=-2.0V$ $I_C=-50mA$	-0.60	-0.65	-0.70	V
Transition Frequency	f_T	$V_{CE}=-2.0V$ $I_C=-100mA$	70	120		MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=-10V$ $I_E=0$ $f=1.0MHz$		25		pF
Turn-On Time	t_{on}	$V_{CC}=-10V$ $I_C=-100mA$		0.07		μs
Storage Time	t_{stg}	$I_{B1}=-I_{B2}=-10mA$		0.7		μs
Turn-Off Time	t_{off}	$V_{BE(off)}=2V\sim 3V$		0.07		μs



T0-92

Unit: mm





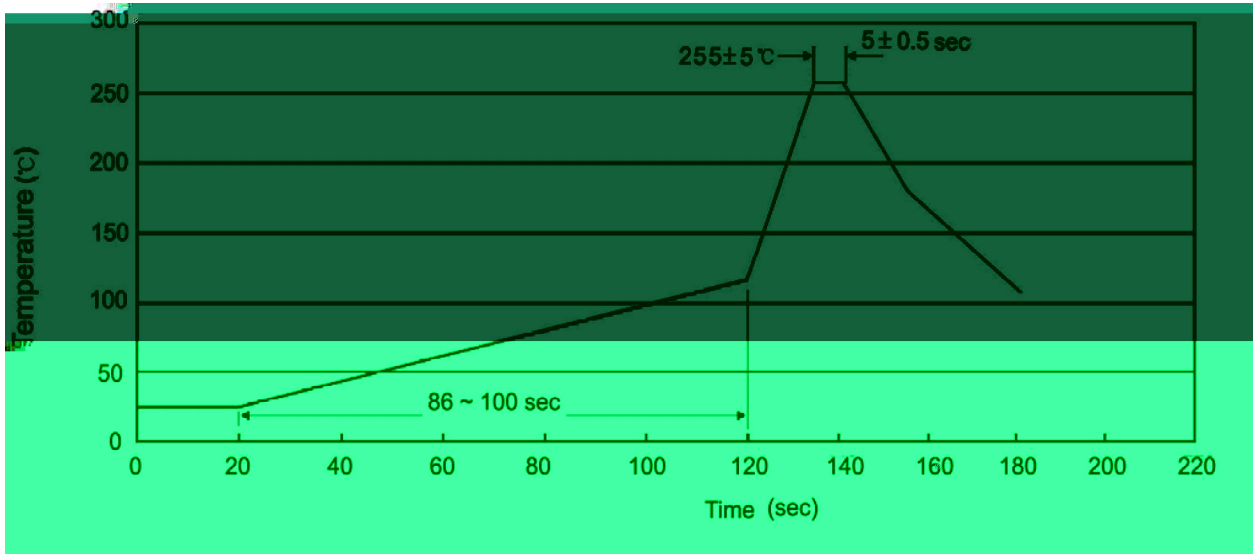
Note:

BR: Company Code.

B1116: Product Type.

Y: 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