

/ Descriptions

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

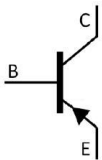
/ Features

Complementary pair with 2SD756.

/ Applications

Low frequency high voltage amplifier.

/ Equivalent Circuit



/ Pinning



PIN1 Base PIN 2 Collector PIN 3 Emitter

/ h_{FE} Classifications & Marking

h_{FE} Classifications Symbol	D	E
h_{FE} Range	250 500	400 800

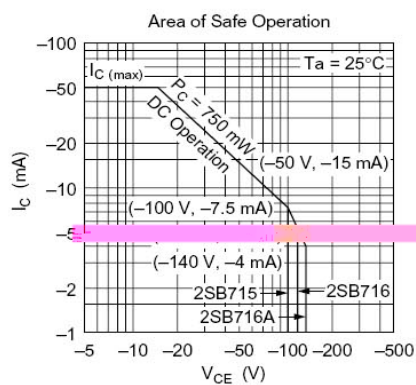
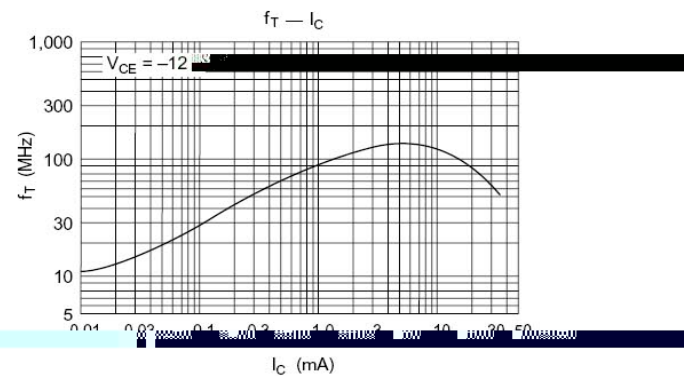
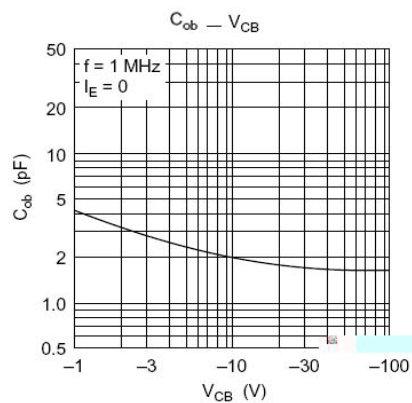
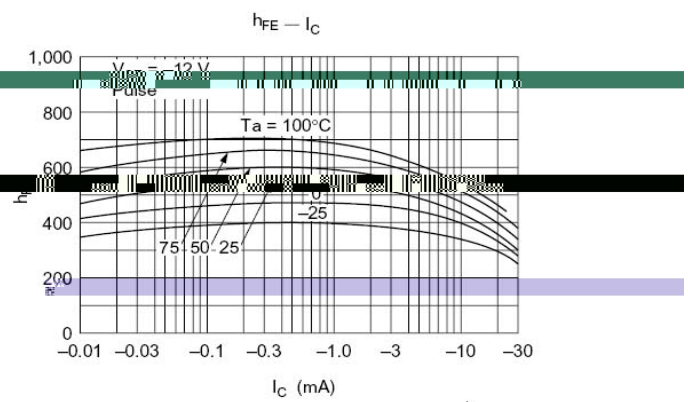
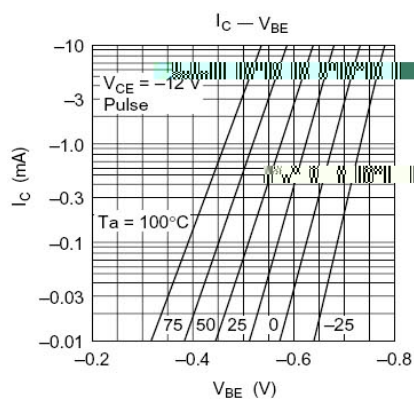
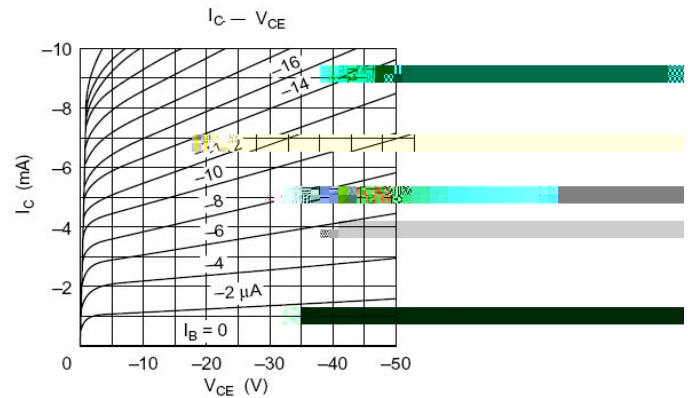
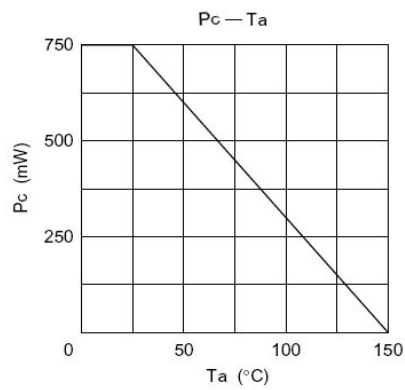
/ Absolute Maximum Ratings (Ta=25)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-120	V
Collector to Emitter Voltage	V_{CEO}	-120	V
Emitter to Base Voltage	V_{EBO}	-5	V
Collector Current (DC)	I_C	-50	mA
Collector Power Dissipation	P_C	750	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 to Base Breakdown Voltage	V_{CBO}	$I_C=-10\text{ A}$ $I_E=0$	-120			V
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=-1\text{mA}$ $R_{BE}=\text{ }$	-120			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-100\text{V}$ $I_E=0$			-0.5	A
DC Current Gain	$h_{FE(1)}$	$V_{CE}=-12\text{V}$ $I_C=-2\text{mA}$	250		800	
	$h_{FE(2)}$	$V_{CE}=-12\text{V}$ $I_C=-10\text{mA}$	125			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-10\text{mA}$ $I_B=-1\text{mA}$			-0.2	V
Base to Emitter Voltage	V_{BE}	$V_{CE}=-12\text{V}$ $I_C=-2\text{mA}$			-0.75	V
Transition Frequency	f_T	$V_{CE}=-12\text{V}$ $I_C=-5\text{mA}$		150		MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=25\text{V}$ $f=1\text{MHz}$ $I_E=0$		1.8		pF

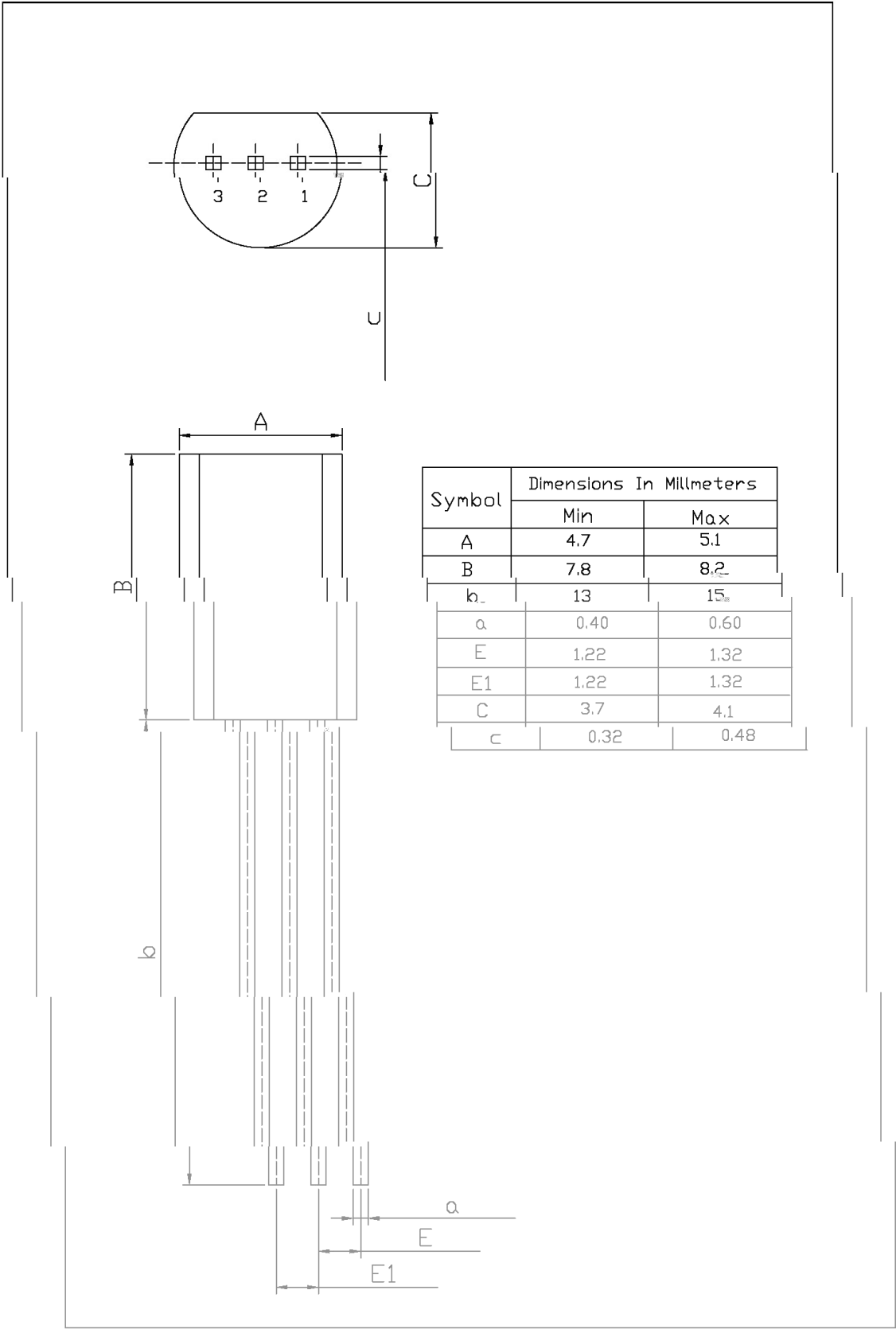
/ Electrical Characteristic Curve



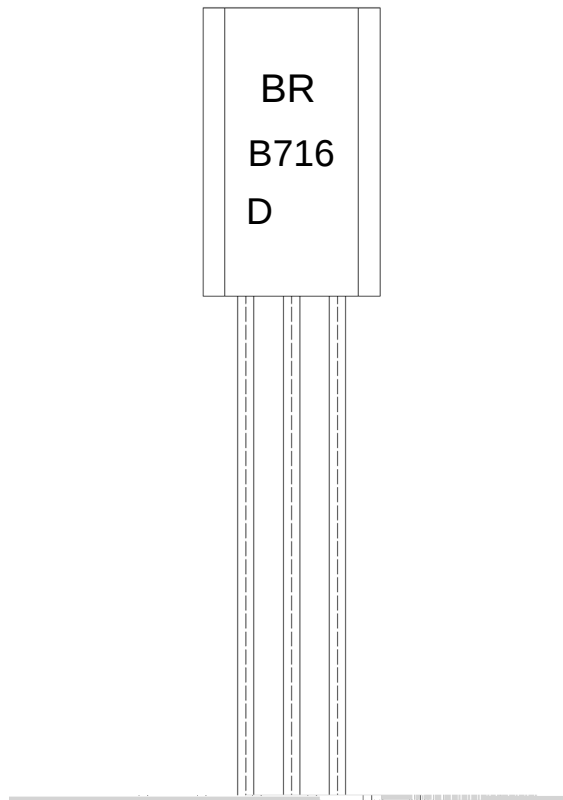
/ Package Dimensions

TO-92LM

Unit: mm



/ M a r k i n g I n s t r u c t i o n s



Note:

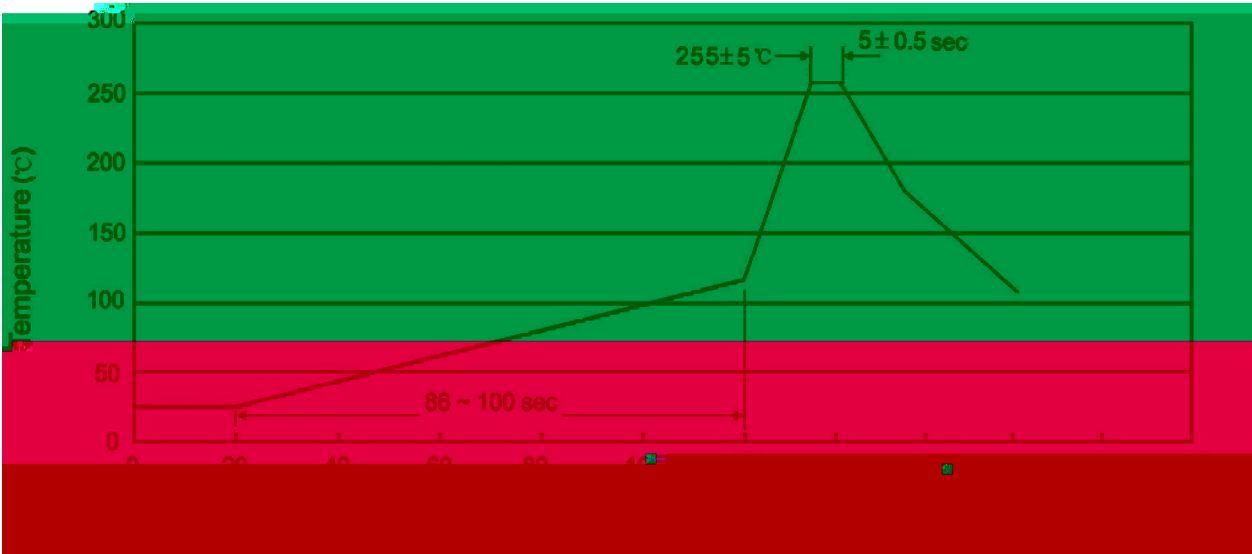
BR: Company Code.

B716: Product Type.

D: 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;
- 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.

/ 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