

/ Descriptions

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

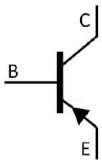
/ Features

2SD756
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

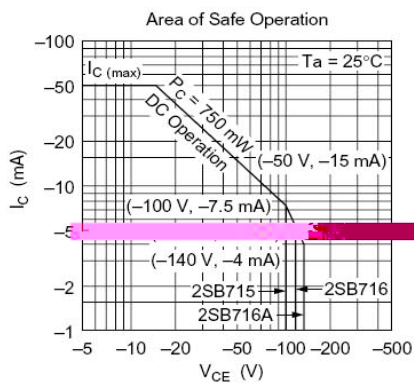
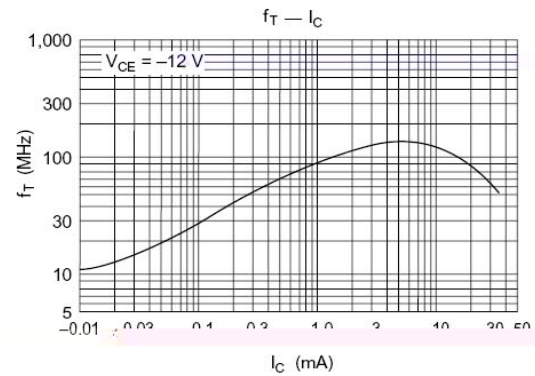
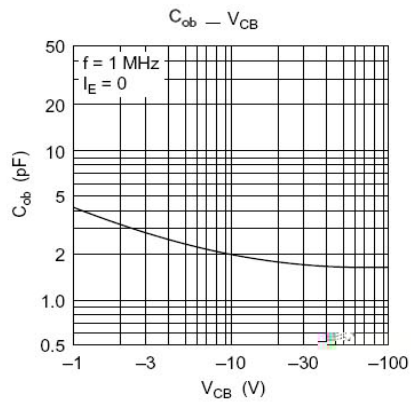
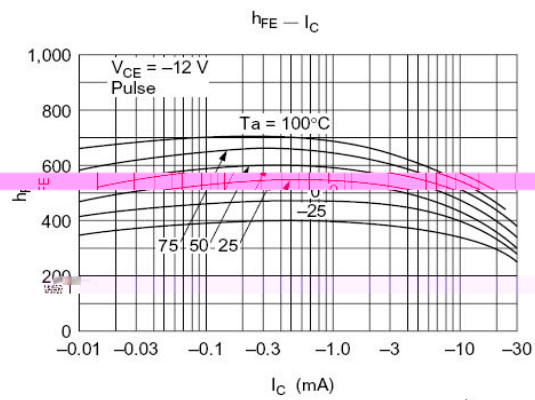
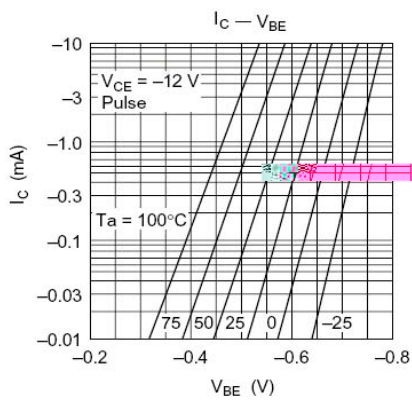
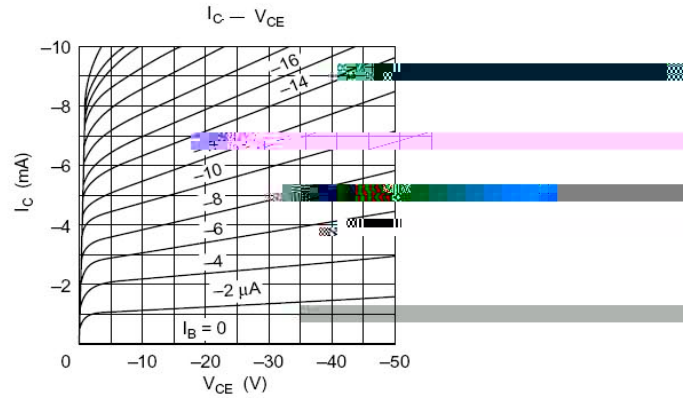
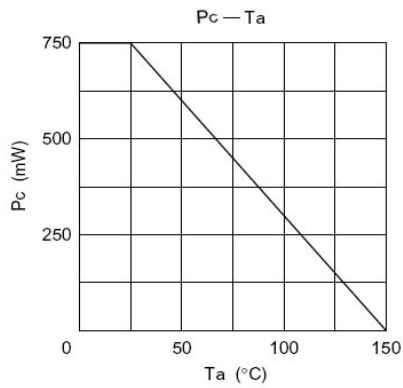
/ Absolute Maximum Ratings(Ta=25)

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

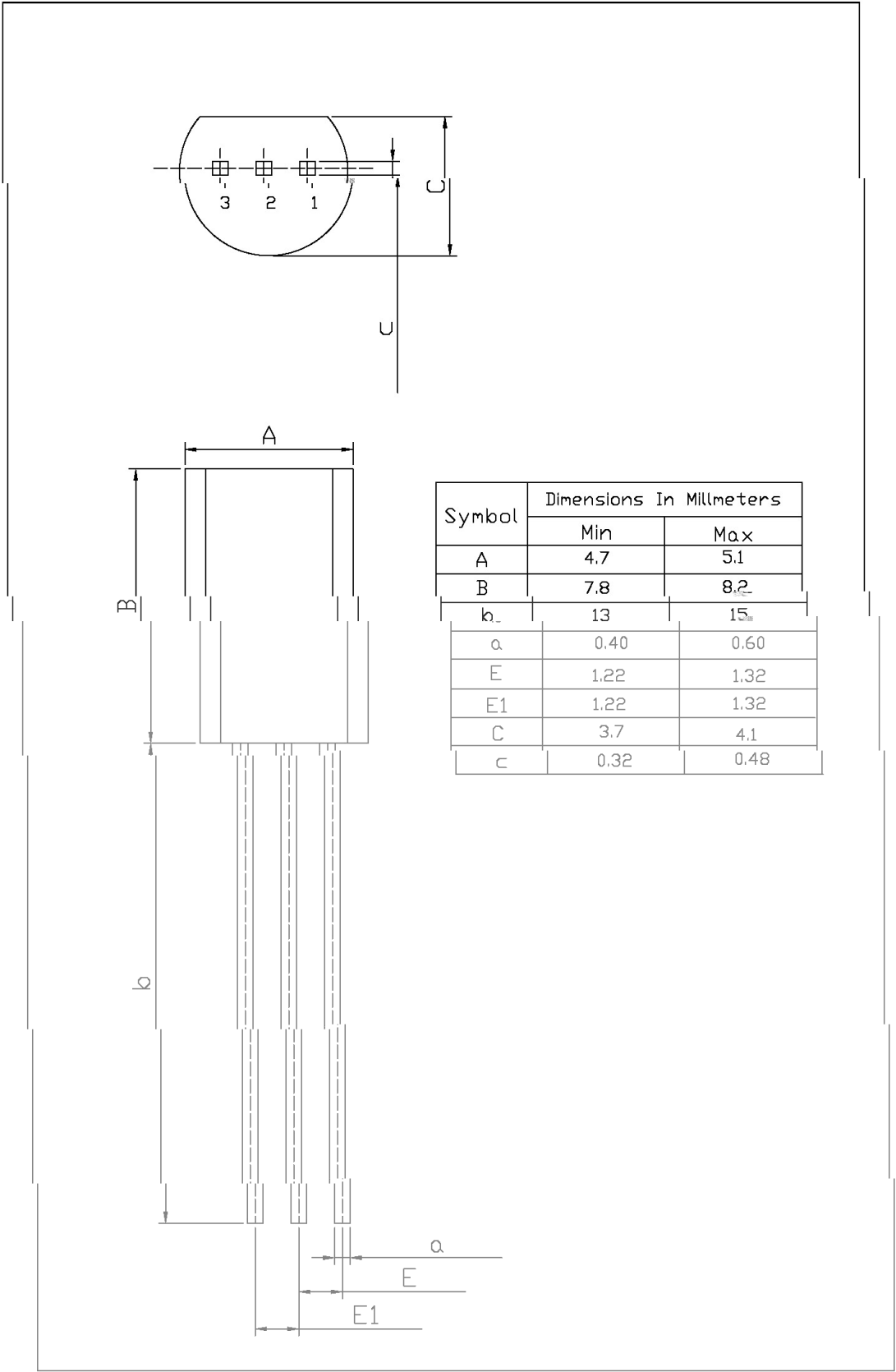
/ Electrical Characteristic Curve



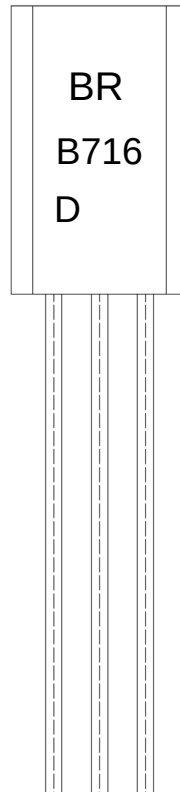
/ Package Dimensions

T0-92LM

Unit: mm



/ Marking Instructions



BR:

B716

D: h_{FE}

Note:

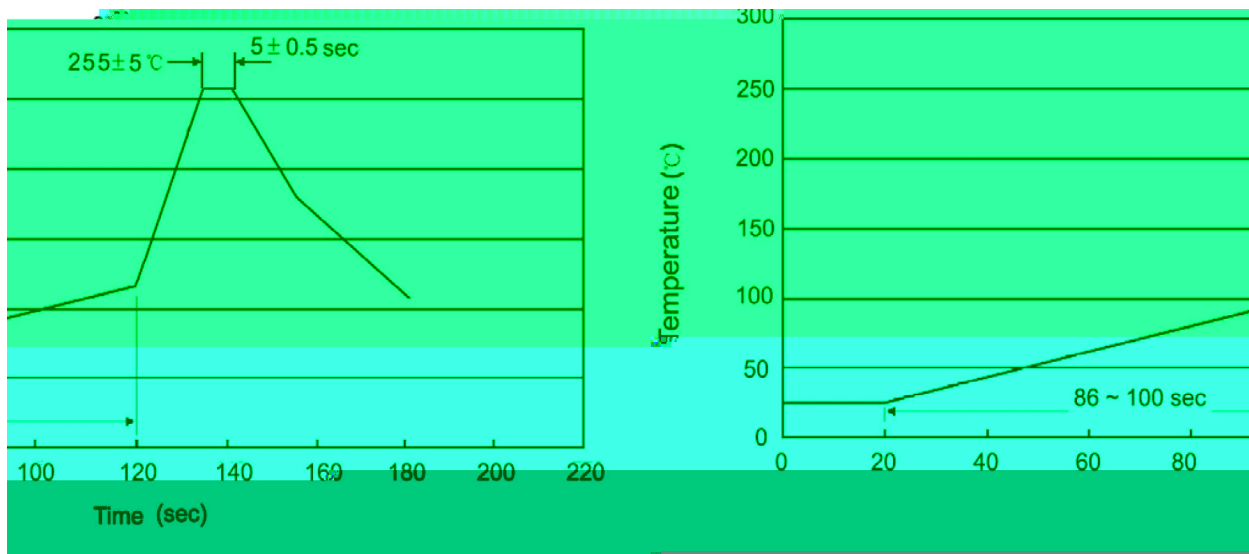
BR: Company Code.

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; | 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