

/ Descriptions

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

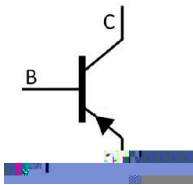
/ Features

h_{FE} C_{ob} 2SC2910
High breakdown voltage, Excellent linearity of h_{FE} and small C_{ob} , Fast switching speed
complementary pair with 2SC2910.

/ Applications

80W
High voltage switching, Audio 80W output pre-driver applications.

/ Equivalent Circuit



/ Pinning



PIN1 Base PIN 2 Collector PIN 3 Emitter

/ h_{FE} Classifications & Marking

h_{FE} Classifications Symbol	R	S	T
h_{FE} Range	100~200	140~280	200~400

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-180	V
Collector to Emitter Voltage	V_{CEO}	-160	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current - Continuous	I_C	-70	mA
Collector Current – Continuous(Pulse)	I_{CP}	-140	mA
Collector Power Dissipation	P_C	900	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}	$V_{CB}=-80V$ $I_E=0$			-0.1	μA
Emitter Cut-Off Current	I_{EBO}	$V_{CB}=-4V$ $I_C=0$			-0.1	μA
DC Current Gain	h_{FE}	$V_{CE}=-5V$ $I_C=-10mA$	100		400	
Transition Frequency	f_T	$V_{CE}=-10V$ $I_C=-10mA$		150		MHz
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-30mA$ $I_B=-3.0mA$		-0.14	-0.4	V
Collector output capacitance	C_{ob}	$V_{CB}=-10V$ $f=1.0MHz$		2.5		pF
Turn-On Time	t_{on}	$I_C=-10I_{B1}=10I_{B2}=-10mA$		0.1		μs
Fall Time	t_f	$I_C=-10I_{B1}=10I_{B2}=-10mA$		0.2		μs
Storage Time	t_{stg}	$I_C=-10I_{B1}=10I_{B2}=-10mA$		1.0		μs

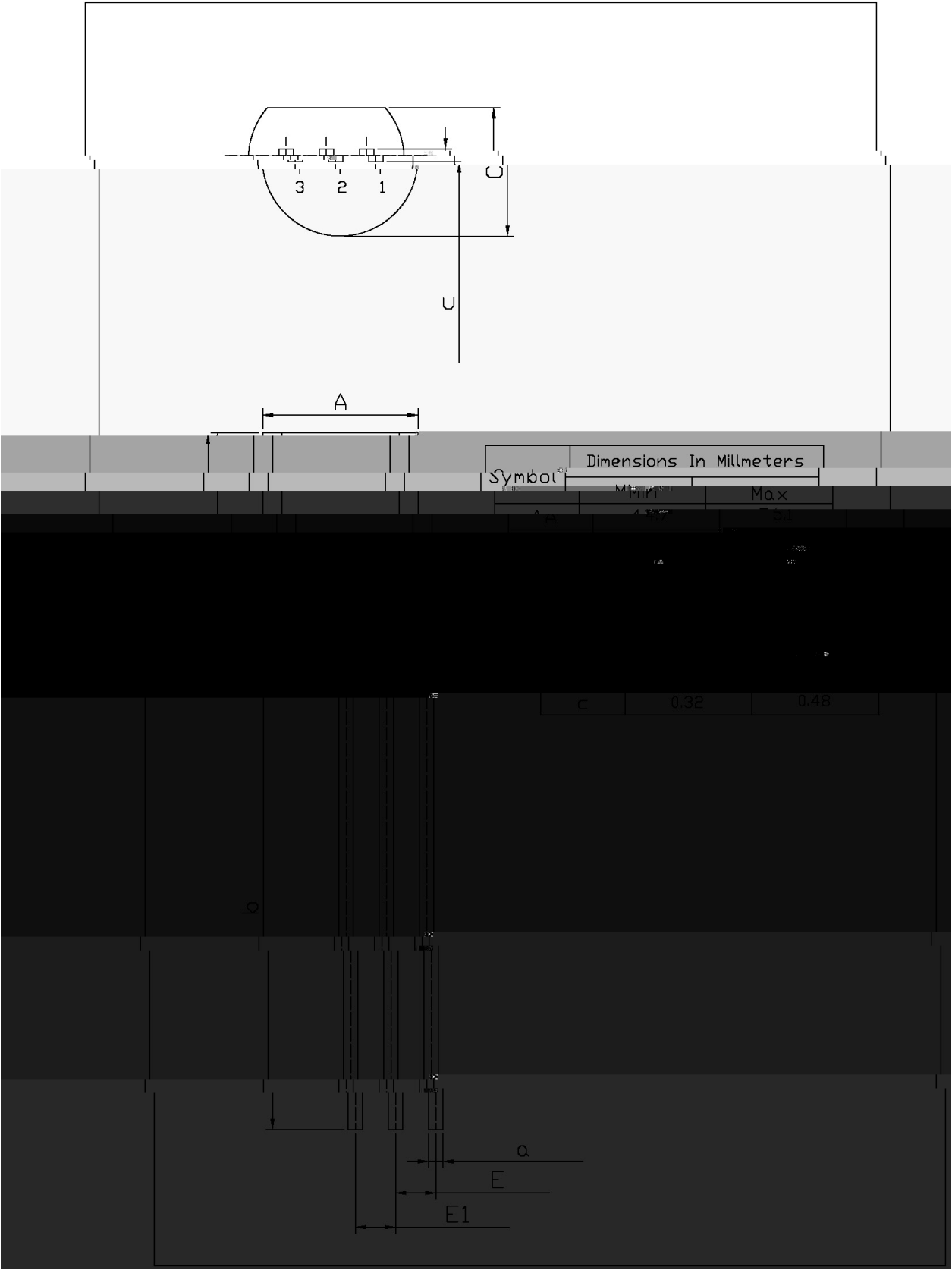
/ Electrical Characteristic Curve



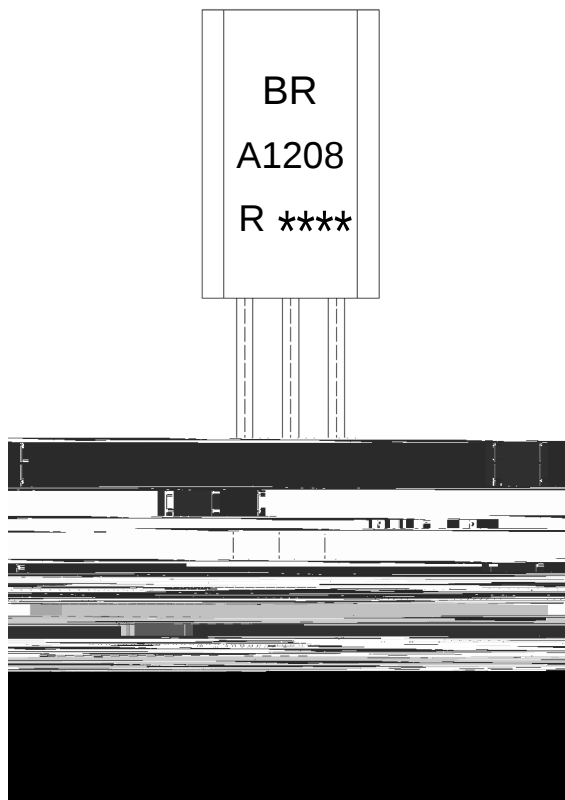
/ Package Dimensions

TO-92LM

Unit: mm



/ Marking Instructions



BR:

A1208

R: h_{FE}

Note:

BR: Company Code.

A1208: Product Type.

R: 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.	Tf0.56D935.8(5(.7150))TJ/TT7	1	Tf314.9486	0
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