/ Descriptions

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

/ Features

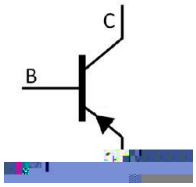
2SC2235

Complementary pair with 2SC2235.

/ Applications

Power amplifier applications, driver stage amplifier applications.

/ Equivalent Circuit



/ Pinning

PIN1 Base PIN 2 Collector PIN 3 Emitter

/ h_{FE} Classifications & Marking

h_{FE} Classifications Symbol	O	Y
h_{FE} Range	80~160	120~240

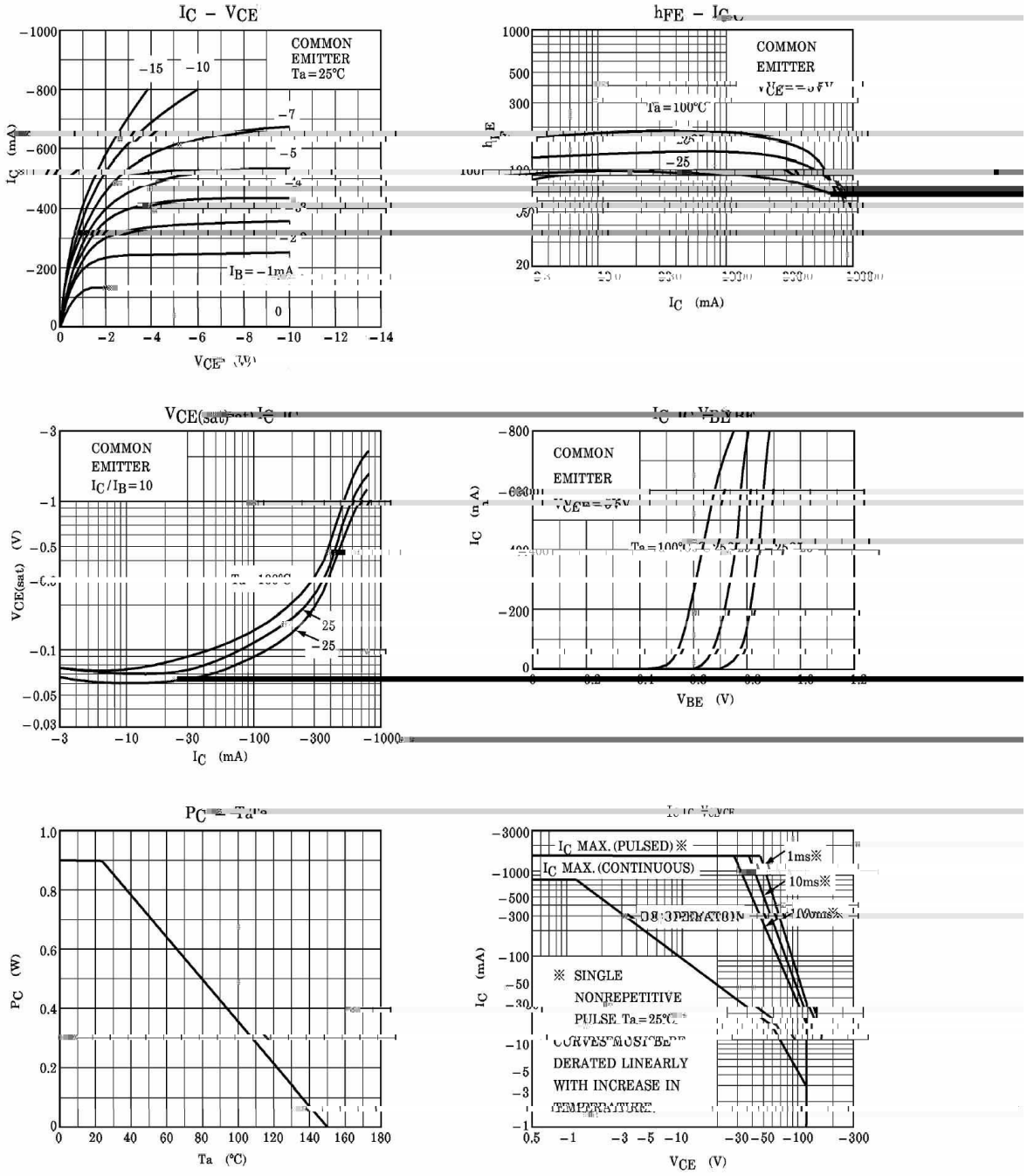
/ Absolute Maximum Ratings(Ta=25)

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}	-5.0	V
Collector Current - Continuous	I_C	-800	mA
Emitter Current - Continuous	I_E	800	mA
Collector Power Dissipation	P_C	900	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

/ Electrical Characteristics(Ta=25)

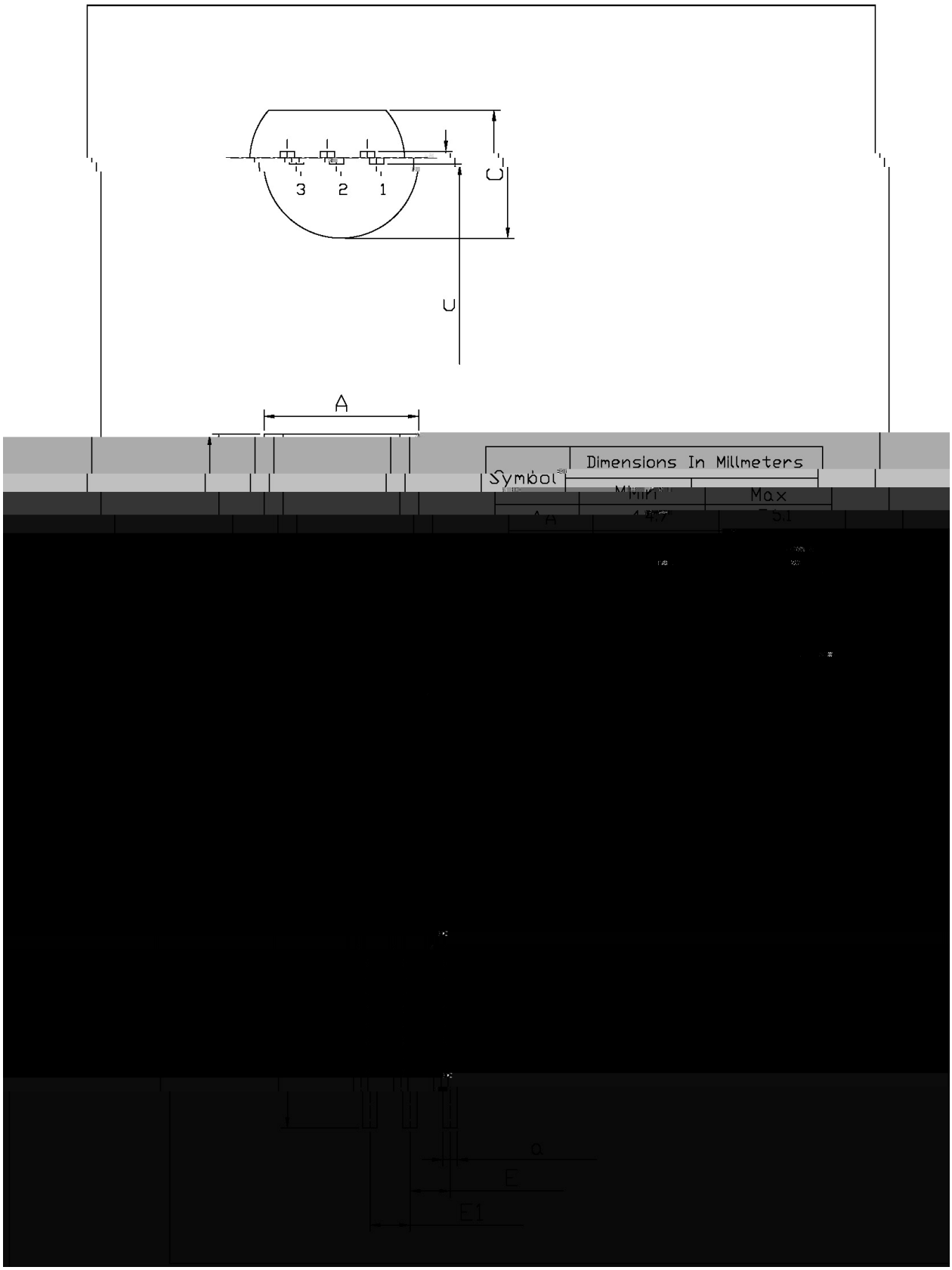
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Emitter Breakdown Voltage	V_{CEO}	I_C=-10mA I_B=0	-120			V
Emitter to Base Breakdown Voltage	V_{EBO}	I_E=-1.0mA I_C=0	-5.0			V
Collector Cut-Off Current	I_{CBO}	V_{CB}=-120V I_E=0			-0.1	μA
Emitter Cut-Off Current	I_{EBO}	V_{EB}=-5.0V I_C=0			-0.1	μA
DC Current Gain	h_{FE}	V_{CE}=-5.0V I_C=-100mA	80		240	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=-500mA I_B=-50mA			-1.0	V
Base to Emitter Voltage	V_{BE}	V_{CE}=-5.0V I_C=-500mA			-1.0	V
Transition Frequency	f_T	V_{CE}=-5.0V I_C=-100mA		120		MHz
Collector output capacitance	C_{ob}	V_{CB}=-10V I_E=0 f=1.0MHz			40	pF

/ Electrical Characteristic Curve

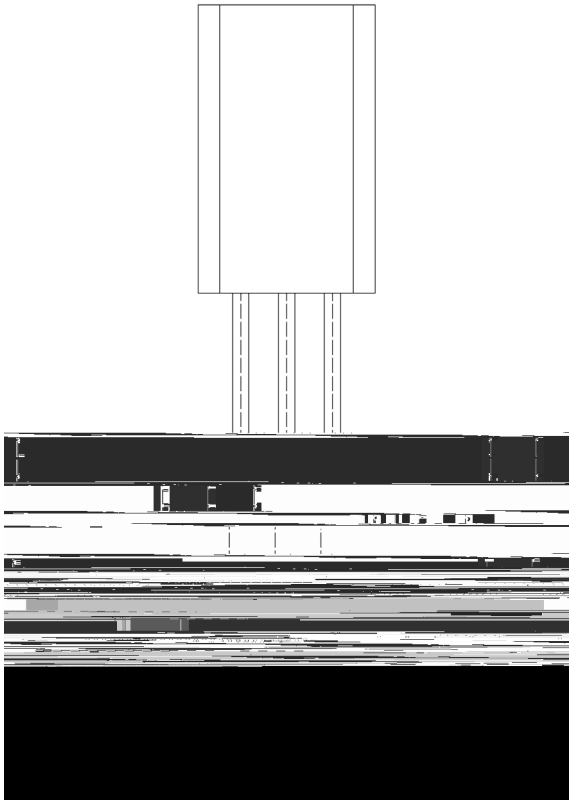


/ Package Dimensions

TO-92LM Unit: mm



/ Marking Instructions



BR:

A965

O: h_{FE}

****

Note:

( ) / 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	Units	Dimension	(unit mm3)