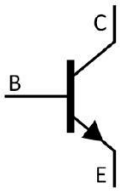
TO-92LM NPN Silicon NPN transistor in a TO-92LM Plastic Package.

, 2SA1145
High transition frequency, small collector output capacitance complementary pair with 2SA1145.

Audio frequency amplifier applications.





PIN1 Base PIN 2 Collector PIN 3 Emitter 6

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	150	V
Collector to Emitter Voltage	V_{CEO}	150	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current (DC)	I_C	50	mA
Base Current	I_B	5.0	mA
Collector Power Dissipation	P_C	800	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

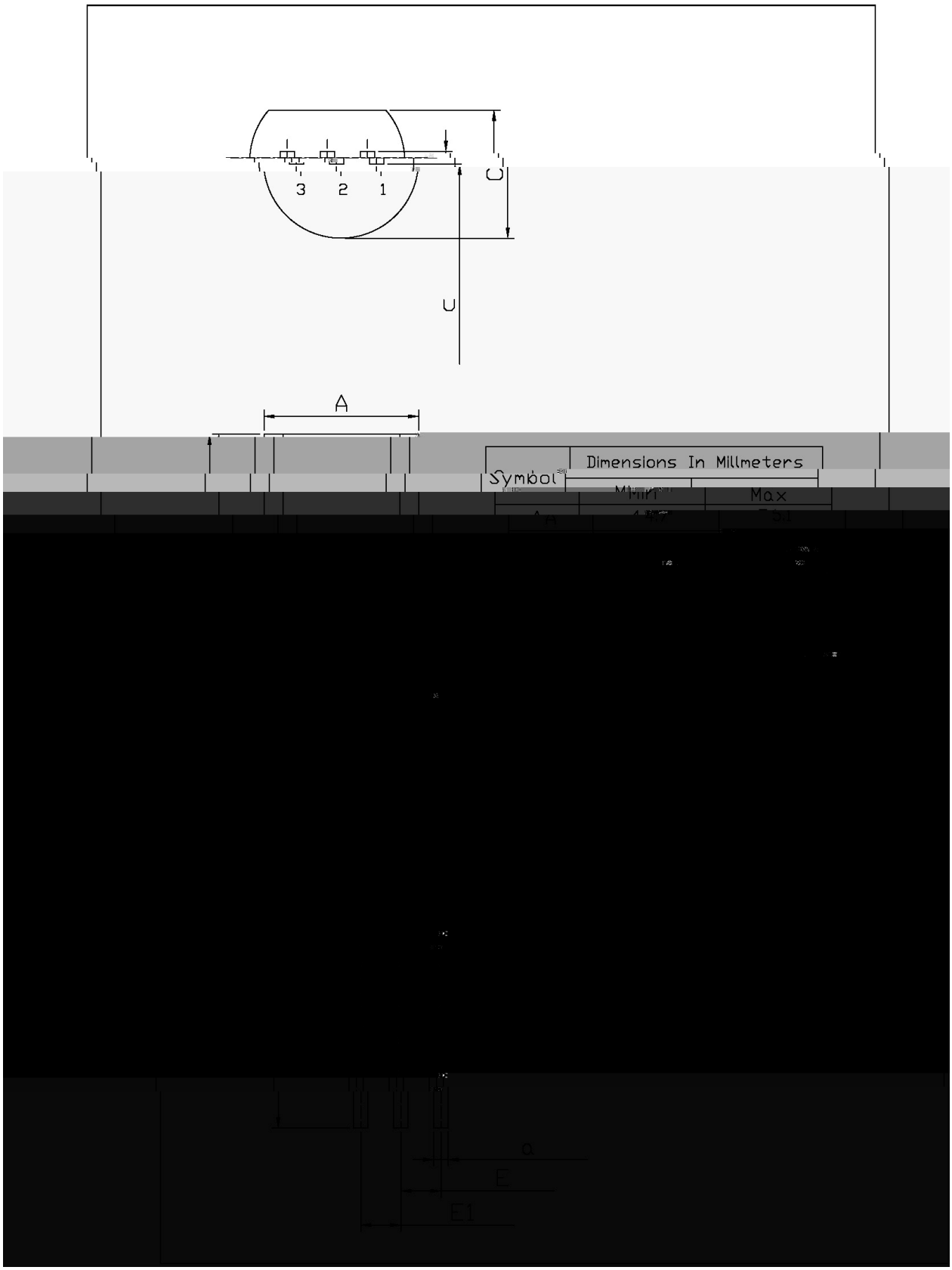
.MUbGs HEUbGs$S

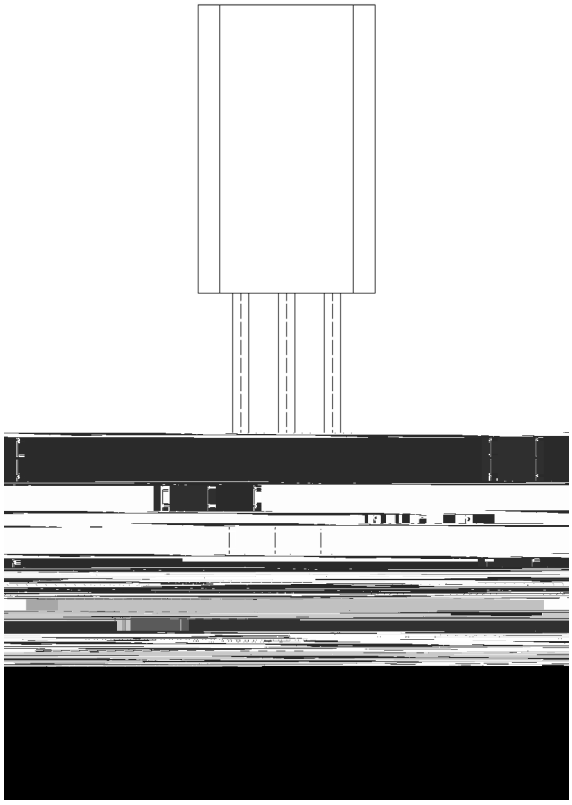
Parameter Symbol Test Conditions Min Typ Max

Cut-Off Current	I_{EBO}	$_{EB}$=5.0V I_C=0			0.1	μA
DC Curent Gain	h_{FE}	V_{CE}=5.0V I_C=10mA	80		240	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=10mA I_B=1.0mA			1.0	V
Base to Emitter Voltage	V_{BE}	V_{CE}=5.0V I_C=10mA			0.8	V
Tansition Frequency	f_T	$_{CE}$=5.0V I_C=10mA		200		MHz
Collector output capacitance	C_{ob}	$_{CB}$=10V I_E=0 f=1.0MHz		1.8		pF

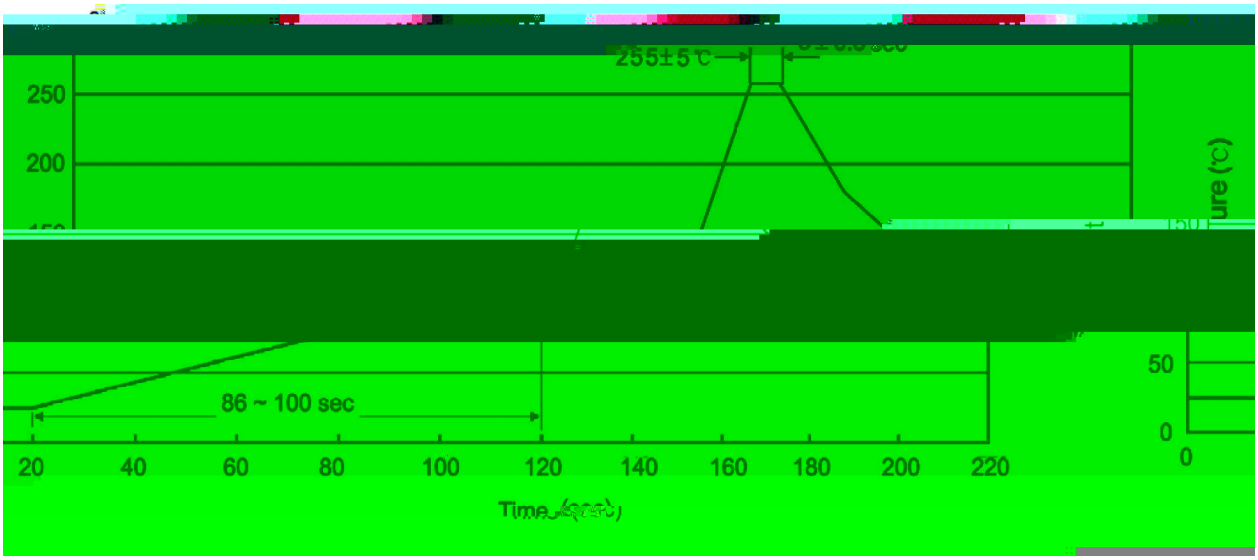
/ PackageDimensions

TO-92LM Unit: mm





( ) / 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.		Tf0.56db2f	j/TT2	1	Tf2	0	TD-0.0005;