

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

KSA916
Complement to KSA916.

Audio power amplifier and driver stage amplifier applications.

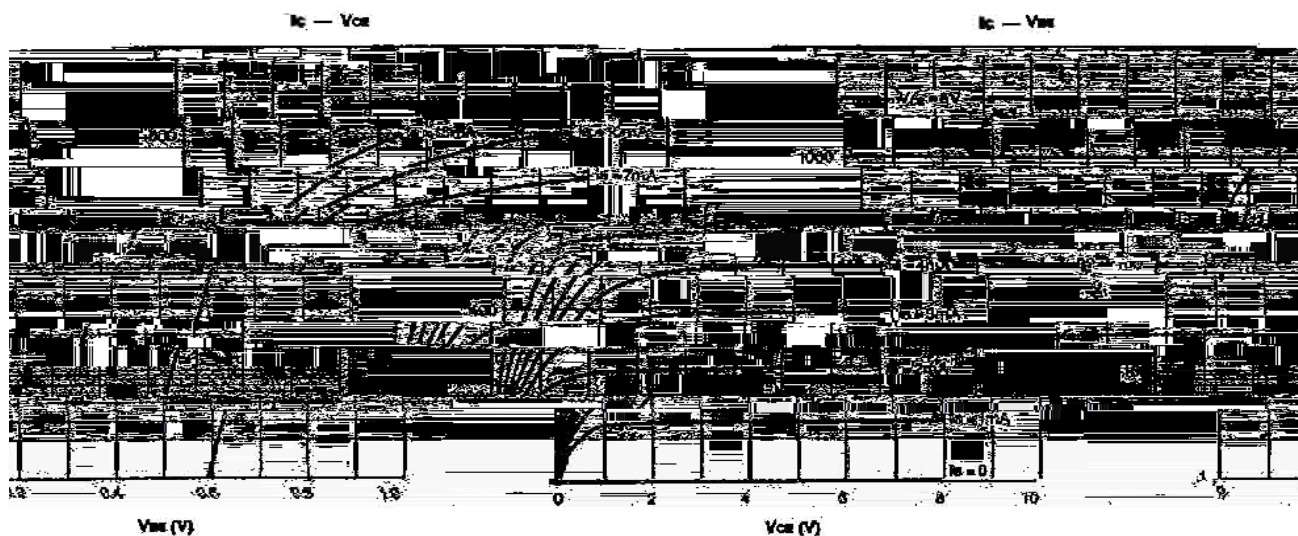
/ Absolute Maximum Ratings(Ta=25)

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 (DC)	I_C	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 Base Breakdown Voltage	V_{CBO}	$I_C=1.0mA$ $I_E=0$	120			V
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
DC Current Gain	$h_{FE(1)}$	$V_{CE}=5.0V$ $I_C=100mA$	80		240	
	$h_{FE(2)}$	$V_{CE}=5.0V$ $I_C=10mA$	60			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=500mA$ $I_B=50mA$			1.0	V
Transition Frequency	f_T	$V_{CE}=5.0V$ $I_C=100mA$		120		MHz
Collector output capacitance	C_{ob}	$V_{CB}=10V$ $I_E=0$ $f=1.0MHz$			30	pF

/ Electrical Characteristic Curve



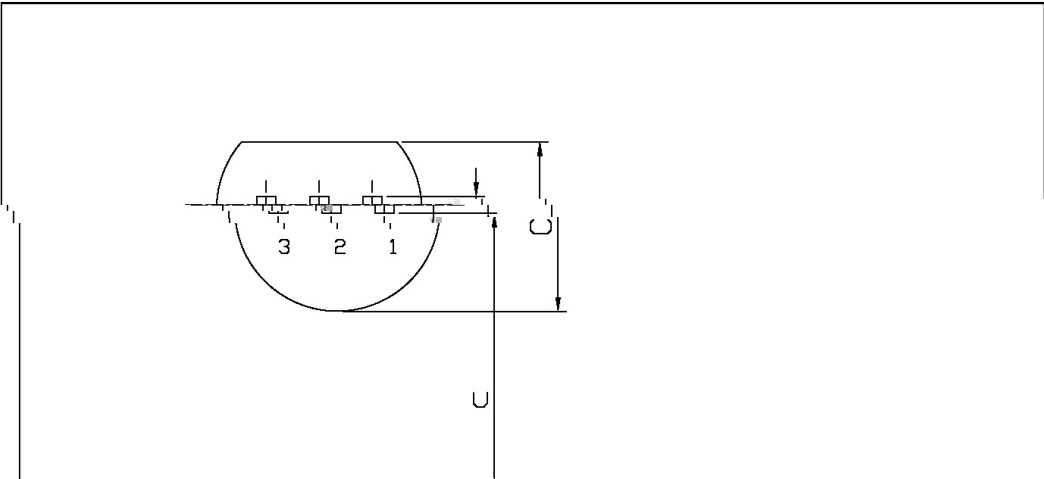
$V_{CE} (sat) - I_C$



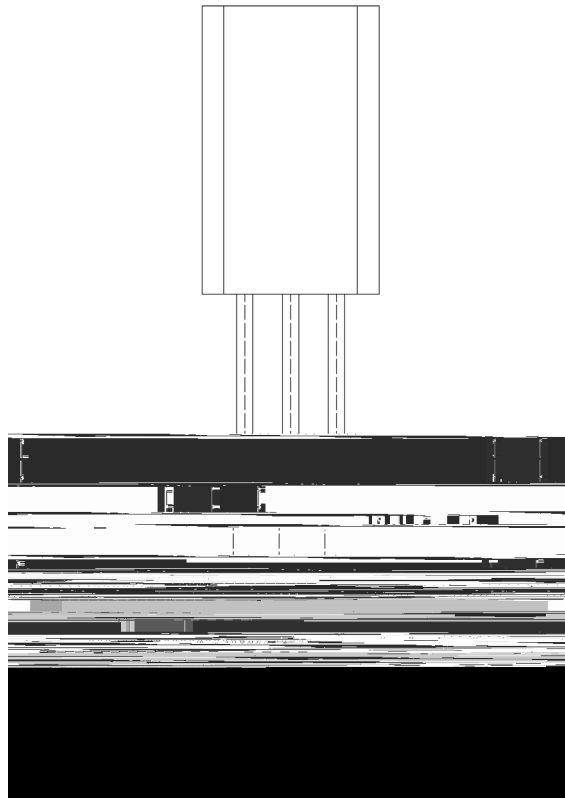
/ Package Dimensions

T0-92LM

Unit: mm



Symbol	Dimensions In Millimeters	
	Min	Max
A	4.7	5.1
B	1.2	1.5
C	1.2	1.5
D	1.2	1.5
E	1.2	1.5
F	1.2	1.5
G	1.2	1.5
H	1.2	1.5
I	1.2	1.5
J	1.2	1.5
K	1.2	1.5
L	1.2	1.5
M	1.2	1.5
N	1.2	1.5
O	1.2	1.5
P	1.2	1.5
Q	1.2	1.5
R	1.2	1.5
S	1.2	1.5
T	1.2	1.5
U	1.2	1.5
V	1.2	1.5
W	1.2	1.5
X	1.2	1.5
Y	1.2	1.5
Z	1.2	1.5



() / 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
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/ Packaging SPEC.

/ BULK

Package Type	Units	Dimension	(unit mm3)
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