

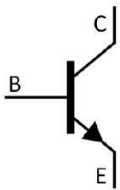
Rev.E Mar.-2016

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

KSA733

Complementary pair with KSA733.

Audio frequency amplifier, high frequency OSC.



PIN1 Collector PIN 2 Base PIN 3 Emitter

h_{FE} Classifications Symbol	O	Y	G	L
h_{FE} Range	70~140	120~240	200~400	350~700

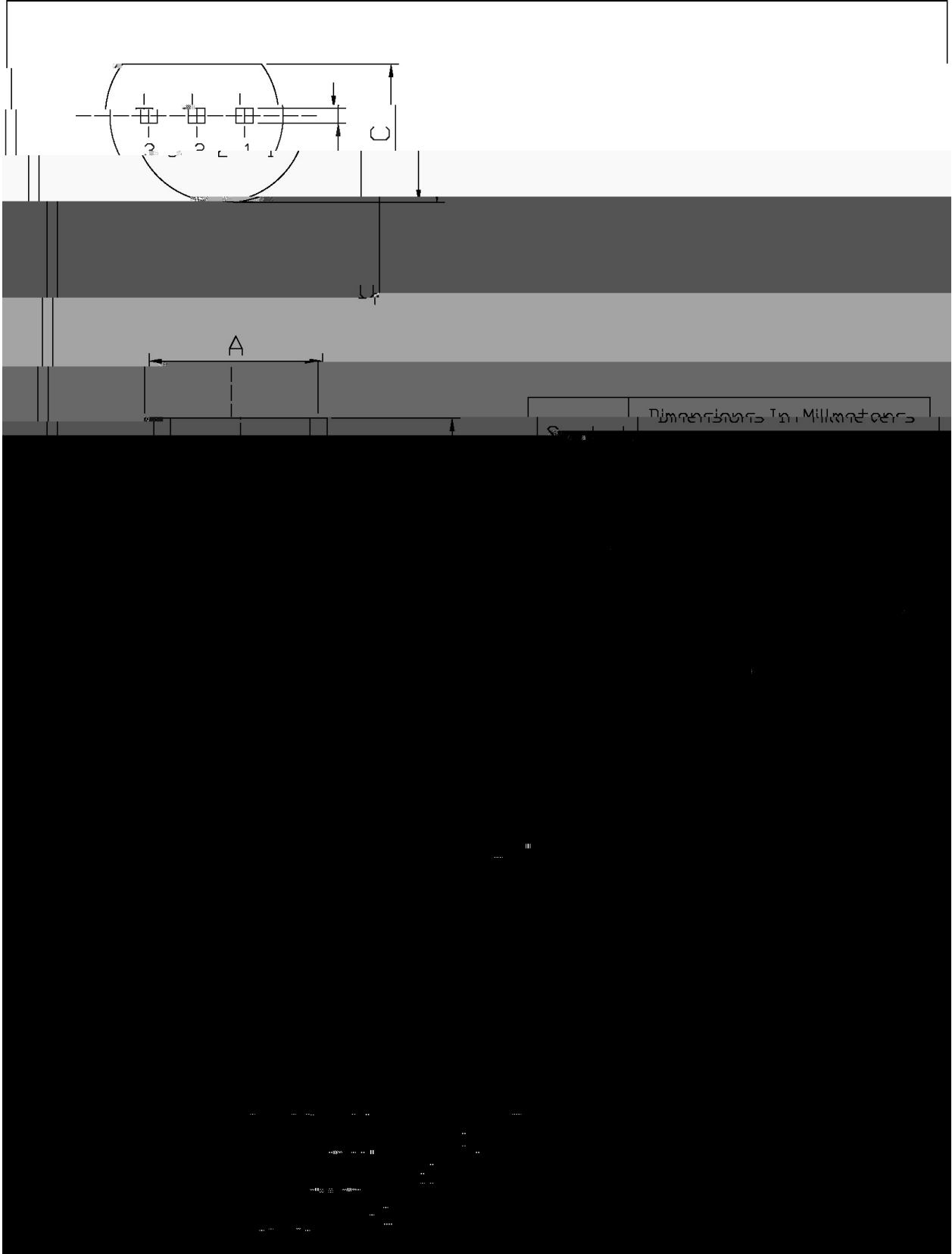
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	60	V
Collector to Emitter Voltage	V_{CEO}	50	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current - Continuous	I_C	150	mA
Collector Power Dissipation	P_C	250	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

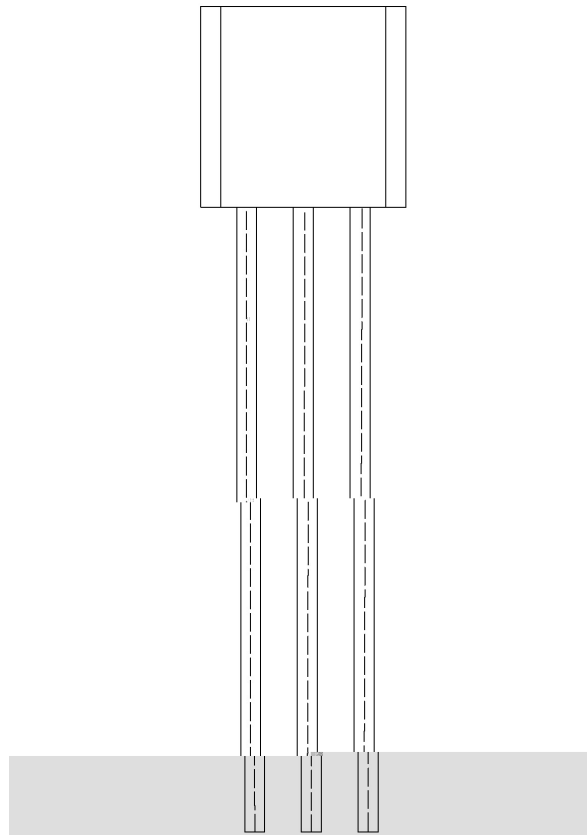
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	$I_C=100\mu A$ $I_E=0$	60			V
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=10mA$ $I_B=0$	50			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E=-10\mu A$ $I_C=0$	5.0			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=40V$ $I_E=0$			0.1	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=3.0V$ $I_C=0$			0.1	μA
DC Current Gain	h_{FE}	$V_{CE}=6.0V$ $I_C=1.0mA$	70		700	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=100mA$ $I_B=10mA$		0.15	0.3	V
Transition Frequency	f_T	$V_{CE}=6.0V$ $I_C=10mA$		300		MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=6.0V$ $I_E=0$ $f=1.0MHz$		2.5		pF
Noise Figure	NF	$V_{CE}=6.0V$ $I_E=-0.5mA$ $f=1.0KHz$ $R_S=500$		4.0		dB

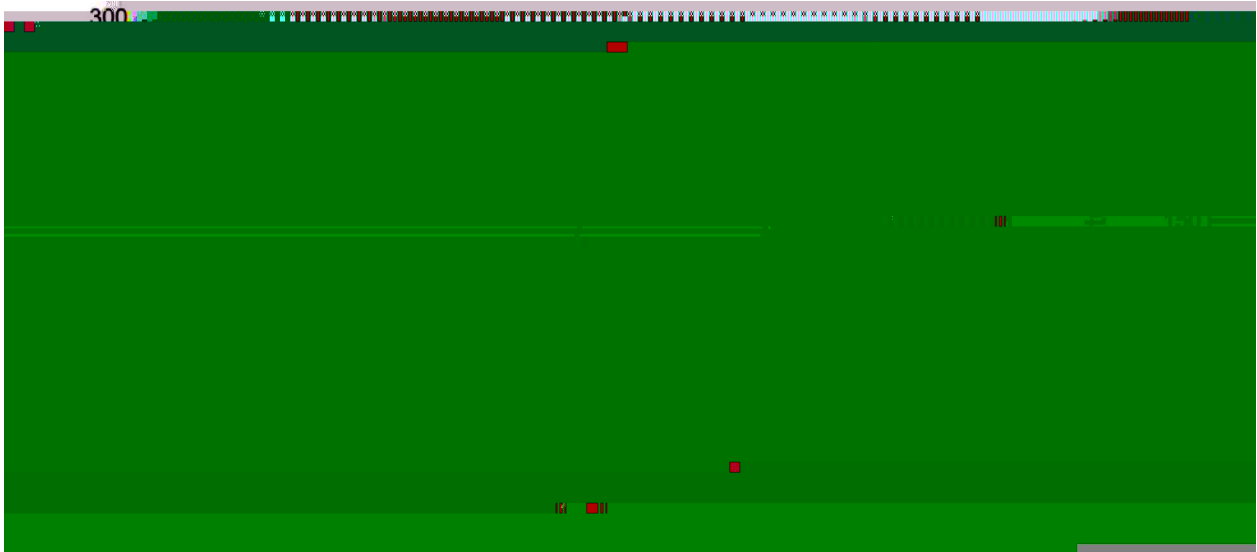


T0-92

Unit: mm







- | | | | | | | |
|---|-------|-----|-----------|--------|---|--------------------------------------|
| 1 | 25 | 150 | 60 | 90sec; | Note: | 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. | |

270±5 10±1 sec. Temp:270±5 Time:10±1 sec

/ BULK

Package Type	Units				Dimension		(unit mm3)

/ AMMO

Package Type	Units	Dimension	(unit mm3)