

# Central<sup>TM</sup> Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

2N4870  
2N4871

SILICON UNIJUNCTION TRANSISTOR

JEDEC TO-92 CASE

## DESCRIPTION

The CENTRAL SEMICONDUCTOR 2N4870, 2N4871 types are P-N Silicon Unijunction Transistors designed for oscillator, triggering and timing applications.

## MAXIMUM RATINGS ( $T_A=25^{\circ}\text{C}$ )

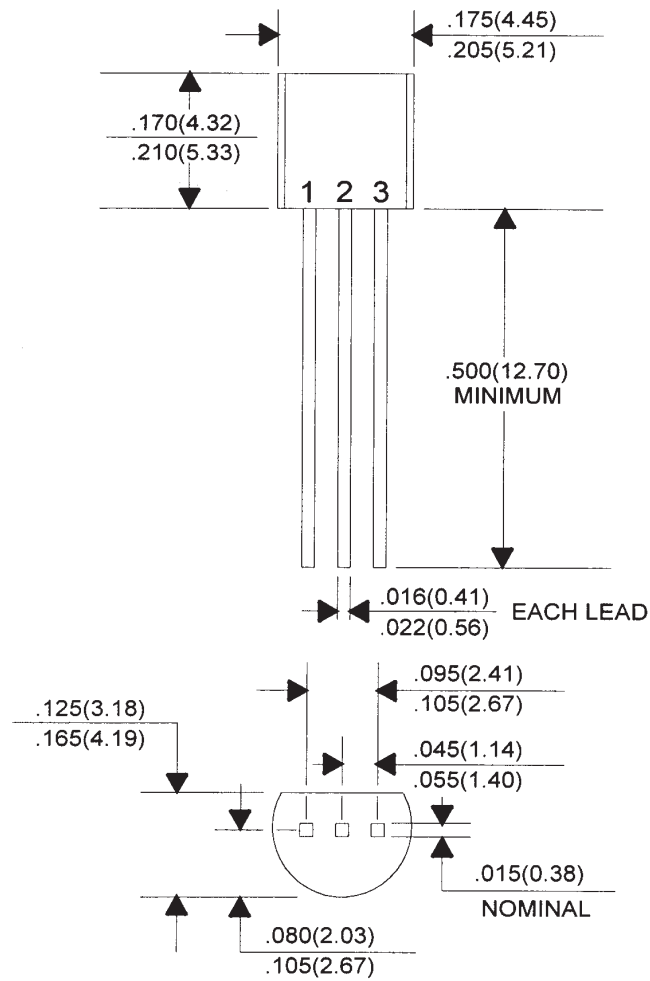
	<u>SYMBOL</u>		<u>UNITS</u>
Emitter Reverse Voltage	$V_{B2E}$	30	V
Interbase Voltage	$V_{B2B1}$	35	V
RMS Emitter Current	$I_e$	1.5	A
Peak Emitter Current (1)	$i_e$	1.0	A
RMS Power Dissipation	$P_D$	300	mW
Operating Junction Temperature Range	$T_J$	-65 to +125	$^{\circ}\text{C}$
Storage Temperature Range	$T_{stg}$	-65 to +150	$^{\circ}\text{C}$

(1) Duty Cycle  $\leq$  1%, PRR=10 PPS.

## ELECTRICAL CHARACTERISTICS ( $T_A=25^{\circ}\text{C}$ unless otherwise noted)

<u>SYMBOL</u>	<u>TEST CONDITIONS</u>	2N4870		2N4871		<u>UNITS</u>
		<u>MIN</u>	<u>MAX</u>	<u>MIN</u>	<u>MAX</u>	
$\eta$	$V_{B2B1}=10\text{V}$	0.56	0.75	0.70	0.85	
$R_{BB}$	$V_{B2B1}=3.0\text{V}$	4.0	9.1	4.0	9.1	k $\Omega$
$I_{EB2O}$	$V_{B2E}=30\text{V}$		1.0		1.0	$\mu\text{A}$
$I_V$	$V_{B2B1}=20\text{V}$ , $R_{B2}=100\Omega$	2.0		4.0		mA
$I_P$	$V_{B2B1}=25\text{V}$		5.0		5.0	$\mu\text{A}$
$V_{OB1}$	$V_1=20\text{V}$	3.0		5.0		V

# JEDEC TO-92 CASE - MECHANICAL OUTLINE



All Dimensions in Inches (mm).

Lead Code:

1. Base 1
2. Emitter
3. Base 2

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