2N4870 2N4871

SILICON PN UNIJUNCTION TRANSISTORS

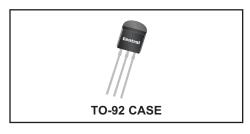


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DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N4870 and 2N4871 are silicon PN unijunction transistors designed for oscillator, triggering and timing applications.





MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Emitter Reverse Voltage	V_{B2E}	30	V
Interbase Voltage	V_{B2B1}	35	V
RMS Emitter Current	Ιe	1.5	Α
Peak Emitter Current (Duty Cycle ≤1%, PRR=10pps) i _e	1.0	Α
RMS Power Dissipation	P_{D}	300	mW
Operating Junction Temperature	T_J	-65 to +125	°C
Storage Temperature	T _{stg}	-65 to +150	°C

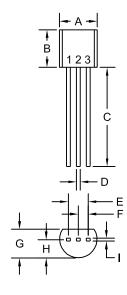
ELECTRICA	L CHARACTERISTICS: (T _A =25°C)	2N4	870	2N4	<u>871</u>	
SYMBOL η	TEST CONDITIONS VB2B1=10V	MIN 0.56	MAX 0.75	MIN 0.70	MAX 0.85	UNITS
R_{BB}	V _{B2B1} =3.0V	4.0	9.1	4.0	9.1	kΩ
I _{EB2O}	V _{B2E} =30V	-	1.0	-	1.0	μΑ
lV	V_{B2B1} =20V, R_{B2} =100 Ω	2.0	-	4.0	-	mA
lΡ	V _{B2B1} =25V	-	5.0	-	5.0	μΑ
V _{OB1}	V ₁ =20V	3.0	-	5.0	-	V

2N4870 2N4871

SILICON PN UNIJUNCTION TRANSISTORS



TO-92 CASE - MECHANICAL OUTLINE



DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
A (DIA)	0.175	0.205	4.45	5.21		
В	0.170	0.210	4.32	5.33		
С	0.500	-	12.70	-		
D	0.016	0.022	0.41	0.56		
E	0.100		2.54			
F	0.050		1.27			
G	0.125	0.165	3.18	4.19		
Н	0.080	0.105	2.03	2.67		
l	0.015		0.38			

TO-92 (REV: R1)

LEAD CODE:

- 1) Base 1 2) Emitter 3) Base 2

MARKING:

R1

FULL PART NUMBER

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- · Inventory bonding
- · Consolidated shipping options

- · Custom bar coding for shipments
- · Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- · Custom electrical curves
- Environmental regulation compliance
- · Customer specific screening
- · Up-screening capabilities

- · Special wafer diffusions
- · PbSn plating options
- Package details
- · Application notes
- · Application and design sample kits
- · Custom product and package development

CONTACT US

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