2N4851 2N4852 2N4853

PN SILICON UNIJUNCTION TRANSISTOR



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N4851, 2N4852, and 2N4853 are Silicon PN Unijunction Transistors designed for timing, sensing, and trigger circuits.

MARKING: FULL PART NUMBER



MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Emitter Reverse Voltage	V_{B2E}	30	V
Interbase Voltage	V _{B2B1}	35	V
RMS Emitter Current	Ι _e	50	mA
Peak Emitter Current (Duty Cycle ≤1%, PRR≤10pp	os) i _e	1.5	Α
RMS Power Dissipation	P_{D}	300	mW
Operating Junction Temperature	T_J	-65 to +125	°C
Storage Temperature	T _{stg}	-65 to +200	°C

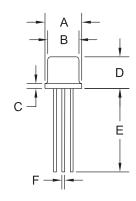
EL ECTRIC	AL CHADACTEDISTICS: /T. =25°C	aaa athamuisa na	.tod)	
SYMBOL	AL CHARACTERISTICS: (T _A =25°C unle TEST CONDITIONS	MIN	MAX	UNITS
η	V _{B2B1} =10V (2N4851)	0.56	0.75	
η	V _{B2B1} =10V (2N4852, 2N4853)	0.70	0.85	
R_{BB}	V _{B2B1} =3.0V	4.7	9.1	kΩ
I _{EB2O}	V _{B2E} =30V (2N4851, 2N4852)		100	nA
I _{EB2O}	V _{B2E} =30V (2N4853)		50	nA
ly	V_{B2B1} =20V, R_{B2} =100 Ω (2N4851)	2.0		mA
ly	V_{B2B1} =20V, R_{B2} =100 Ω (2N4852)	4.0		mA
lV	V_{B2B1} =20V, R_{B2} =100 Ω (2N4853)	6.0		mA
lΡ	V _{B2B1} =25V (2N4851, 2N4852)		2.0	μΑ
lΡ	V _{B2B1} =25V (2N4853)		0.4	μΑ
V _{OB1}	V ₁ =20V (2N4851)	3.0		V
V_{OB1}	V ₁ =20V (2N4852)	5.0		V
V_{OB1}	V ₁ =20V (2N4853)	6.0		V

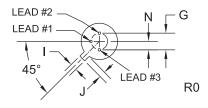
2N4851 2N4852 2N4853

PN SILICON UNIJUNCTION TRANSISTOR



TO-18 (UJT) CASE - MECHANICAL OUTLINE





LEAD CODE:

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

MARKING: FULL PART NUMBER

DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A (DIA)	0.209	0.230	5.31	5.84
B (DIA)	0.178	0.195	4.52	4.95
С	-	0.030	-	0.76
D	0.170	0.210	4.32	5.33
E	0.500	-	12.70	-
F (DIA)	0.016	0.019	0.41	0.48
G (DIA)	0.100		2.54	
Н	0.050		1.27	
I	0.036	0.046	0.91	1.17
J	0.028	0.048	0.71	1.22
TO-18 (UJT) (REV: R0)				

R2 (13-December 2010)

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 guick 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

REQUESTING PRODUCT PLATING

- 1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
- 2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

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Worldwide Distributors:

www.centralsemi.com/wwdistributors

For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centralsemi.com/terms

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Product End of Life Notification

PDN ID:	PDN01113
Notification Date:	3/19/19
Last Buy Date:	Stock Only
Last Shipment Date	Stock Only

Please be advised that Central Semiconductor must immediately discontinue the product(s) listed in the attached PDN notice. We are unable to accept any further orders for these products **unless** we have available inventory on hand.

You may have purchased one or more of the products listed. Please do not hesitate to contact your local Central Semiconductor sales representative with any questions or needs you may have. Central regrets any inconvenience this may cause.

Sincerely,

Central Semiconductor Corp.

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor Corp. will make every effort to offer life-time buy (LTB) opportunities and/or offer replacement devices to existing customers for discontinued devices, however, one or both may not be possible for all devices. Please contact your local Central Semiconductor sales representative for LTB opportunities/additional information.

CCC785 REV 002



Product End of Life Notification

PDN ID:	PDN01113
Notification Date:	3/19/19
Last Buy Date:	
Last Shipment Date	Stock Only

Summary: Uni-Junction Transistors manufactured in the TO-18 package are discontinued and now classified as End of Life (EOL).

Although Central Semiconductor Corp. makes every effort to continue to produce devices that have been proclaimed EOL (End of Life) by other manufacturers, it is an accepted industry practice to discontinue certain devices when customer demand falls below a minimum level of sustainability. Accordingly, the following product(s) have been transitioned to End of Life status as part of Central's ongoing Product Management Process. Any replacement products are noted below. The effective date for placing last purchase orders will be six (6) months from the date of this notice and twelve (12) months from the notice date for final shipments, and minimum order quantities may apply. The last purchase and shipment dates may be extended if inventory is available.

Central Part Number	Replacement
2N2647	N/A, Stock Only
2N4851	N/A, Stock Only
2N4852	N/A, Stock Only
2N4853	N/A, Stock Only
2N4948	N/A, Stock Only
2N4949	N/A, Stock Only
2N5431	N/A, Stock Only

Central would be happy to assist you by providing additional information or technical data to help locate an alternate source if we have no replacement available. Please email your requests to engineering@centralsemi.com.

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor Corp. will make every effort to offer life-time buy (LTB) opportunities and/or offer replacement devices to existing customers for discontinued devices, however, one or both may not be possible for all devices. Please contact your local Central Semiconductor sales representative for LTB opportunities/additional information.

CCC785 REV 002