

## DESCRIPTION

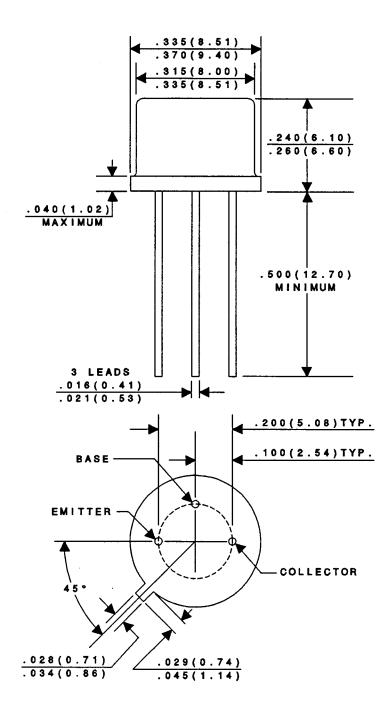
The CENTRAL SEMICONDUCTOR 2N4406, 2N4407 types are PNP Silicon Epitaxial Planar Transistors designed for general purpose and switching applications.

<u>MAXIMUM RATINGS</u>  $(T_A = 25 °C)$ 

	SYMBOL		UNITS
Collector-Base Voltage Collector-Emitter Voltage Emitter-Base Voltage Collector Current Power Dissipation Power Dissipation (T <sub>C</sub> =25°C) Operating and Storage	V <sub>CBO</sub> VCEO V <sub>EBO</sub> I <sub>C</sub> P <sub>D</sub> P <sub>D</sub>	80 80 5.0 2.0 1.25 8.75	V V A W W
Junction Temperature Thermal Resistance Thermal Resistance	Τ <sub>J</sub> ,T <sub>stg</sub> θ <sub>JA</sub> θ <sub>JC</sub>	-65 to +200 140 20	°C/W °C/W

<u>ELECTRICAL CHARACTERISTICS</u> ( $T_A = 25 \,^{\circ}C$  unless otherwise noted)

		<u>2N4</u>	<u>1406</u>	<u>2N4</u>	<u>1407</u>	
SYMBOL	TEST CONDITIONS	<u>MIN</u>	<u>MAX</u>	MIN	MAX	<u>UNITS</u>
СВО	V <sub>CB</sub> =60V		25		25	μA
I <sub>EBO</sub>	V <sub>EB</sub> =3.0V		25		25	μA
BVCEO	I <sub>C</sub> =10mA	80		80		V
BVCBO	i <sub>C</sub> = 10μA	80		80		V
BVEBO	I <sub>E</sub> = 10μA	5.0		5.0		V
V <sub>CE</sub> (SAT)	I <sub>C</sub> = 150mA, I <sub>B</sub> = 15mA		0.2		0.2	v
VCE(SAT)	$I_{C} = 500 \text{mA}, I_{B} = 50 \text{mA}$		0.4		0.4	v
VCE(SAT)	$I_{C} = 1.0A, I_{B} = 100mA$		0.7		0.7	V
VCE(SAT)	$I_{C} = 1.5A, I_{B} = 150mA$		1.5		1.5	V
V <sub>BE(SAT)</sub>	I <sub>C</sub> = 150mA, I <sub>B</sub> = 15mA		0.9		0.9	V
VBE(SAT)	$I_{C} = 1.0A$ , $I_{B} = 100mA$		1.3		1.3	V
VBE(SAT)	$I_{C} = 1.5A, I_{B} = 150mA$		1.5		1.5	v
V <sub>BE</sub> (ON)	$V_{CE} = 1.0V, I_{C} = 500 \text{mA}$		1.0		1.0	V
h <sub>FE</sub>	$V_{CE} = 5.0V, I_{C} = 10mA$	30		80		
h <sub>FE</sub>	$V_{CE} = 5.0V, I_{C} = 150mA$	30		80		
h <sub>FE</sub>	$V_{CE} = 5.0V, I_{C} = 500 \text{mA}$	30	120	80	240	
h <sub>FE</sub>	$V_{CE} = 5.0V, I_{C} = 1.0A$	20		30		
h <sub>FE</sub>	$V_{CE} = 5.0V, I_{C} = 1.5A$	10		10		
fT	$V_{CE} = 20V, I_{C} = 50mA, f = 100MHz$	50		50		MHz
C <sub>cb</sub>	$V_{CB}^{0} = 10V, I_{E}^{0} = 0, f = 1.0MHz$		50		50	pF



All Dimensions in Inches (mm).



# 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

### DESIGNER SUPPORT/SERVICES

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

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

· Custom product packing

Custom bar coding for shipments

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

## REQUESTING PRODUCT PLATING

- If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when 1. 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

## **Corporate Headquarters & Customer Support Team**

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Product End of Life Notification

PDN ID:	PDN01192
Notification Date:	10/19/21
Last Buy Date:	
Last Shipment Date	10/19/22

Summary: The following through-hole transistors are discontinued and now classified as of 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	Suggested Replacement
BU911	N/A
CEN597	N/A
MJE3055T	N/A
MJ4034	N/A
2N2483	N/A
2N2540	N/A
2N3735	N/A
2N4407	N/A
2N5154	N/A
2N5337	N/A
2N6101	N/A
2N6488	N/A

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. If you would like assistance, please visit https://my.centralsemi.com/submit-inquiry?type=ER to submit an online inquiry.

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.