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Manufacturers of World Class Discrete Semiconductors

2N3734 2N3735

NPN SILICON TRANSISTORS

JEDEC TO-39 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 2N3734, 2N3735 types are Silicon NPN Transistors in a hermetically sealed case designed for core driver and high speed switching applications.

MAXIMUM RATINGS (TA=25°C unless otherwise noted)

	SYMBOL	<u>2N3734</u>	2N3735	UNIT
Collector-Base Voltage	V _{CBO}	50	75	V
Collector-Emitter Voltage	VCEO	30	50	٧
Emitter-Base Voltage	VEBO	5.0	5.0	٧.
Collector Current	Ic	1.5	1.5	Α
Power Dissipation	PD	1.0	1.0	W
Power Dissipation (T _C =25°C)	P_{D}^{-}	4.0	4.0	W
Operating and Storage				
Junction Temperature	Tj, T _{stg}	-65 7	ro +200	°C
Thermal Resistance	θ JA	175	175	°C/W
Thermal Resistance	ЭL	43.75	43.75	°C/W

ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted) 2N3734 2N3735							
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	UNIT	
CEV CEV CEV BL BVCBO	V _{CE} =25V, V _{EB} =2.0V V _{CE} =25V, V _{EB} =2.0V, T _A =100°C V _{CE} =40V V _{EB} =2.0V V _{CE} =40V, V _{EB} =2.0V, T _A =100°C V _{CE} =25V, V _{EB} =2.0V V _{CE} =40V, V _{EB} =2.0V I _C =10µA	50	200 20 - - 300	75	200 20 - 300	nA μA nA μA nA nA	
BVCEO BVEBO VCE(SAT) VCE(SAT) VCE(SAT) VCE(SAT) VBE(SAT) VBE(SAT) VBE(SAT)	I C=10mA I E=10μA I C=10mA, I B=1.0mA I C=150mA, I B=15mA I C=500mA, I B=50mA I C=1.0A, I B=100mA I C=10mA, I B=1.0mA I C=150mA, I B=15mA I C=500mA, I B=50mA	30 5.0	0.2 0.3 0.5 0.9 0.8 1.0	50 5.0	0.2 0.3 0.5 0.9 0.8 1.0	V V V V V V	
VBE(SAT) hFE hFE hFE hFE hFE hFE hFE	Ic=1.0A, I _B =100mA V _{CE} =1.0V, I _C =10mA V _{CE} =1.0V, I _C =150mA V _{CE} =1.0V, I _C =500mA V _{CE} =1.5V, I _C =1.0A V _{CE} =5.0V, I _C =1.5A	0.9 35 40 35 30 30	1.4	0.9 35 40 35 20 20	1.4	V MU_	
Cob Cib ton toff QT	VCE=10V, IC=50mA, f=100MHz VCB=10V, IE=0, f=100kHz VBE=0.5V, IC=0, f=100kHz VCC=30V, VBE(0FF)=2.0V, IC=1.0A, IB1=100mA VCC=30V, IC=1.0A, IB1= IB2=100mA VCC=30V, IC=1.0A, IB=100mA	250	9.0 80 48 60	250	9.0 80 48 60	MHz pF pF ns ns	

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:	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.

* All Plating types (PBFREE,TIN/LEAD) for each item listed are included in this notice.

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.

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