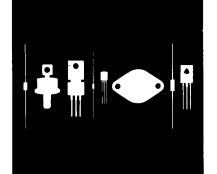


**Central**™

**Semiconductor** 148-B Lamar Street West Babylon, New York 11704



SE9400 SE9401 SE9402

Silicon PNP Transistor

Darlington Power
JEDEC TO-220 Case

## **DESCRIPTION**

The CENTRAL SEMICONDUCTOR SE9400, 01, 02 are Silicon PNP Epitaxial Base, Monolithic Diffused Resistor Type Darlington Construction Power Transistors designed for audio amplifiers and medium power linear and switching applications.

# MAXIMUM RATINGS (TC=25°C)

		9400	<u>9401</u>	9402
Collector to Emitter Voltage Collector to Base Voltage Emitter to Base Voltage Collector Current Power Dissipation Operating Junction Temperature Storage Temperature	V <sub>CEO</sub> V <sub>CBO</sub> V <sub>EBO</sub> I <sub>C</sub> P <sub>D</sub> T <sub>J</sub> T <sub>stg</sub>	60V 60V 5V 10A 70W	80V 80V 5V 10A 70W -65 to +15	

# ELECTRICAL CHARACTERISTICS (TC=25°C)

Symbol	Test Conditions		Min.	Max.	<u>Unit</u>
I <sub>CBO</sub> I <sub>EBO</sub> I <sub>CEO</sub>	V <sub>CE</sub> =Rated V <sub>CEO</sub> V <sub>EB</sub> =5.0V V <sub>CE</sub> =0.5×Rated V <sub>CEO</sub>	okao	60	200 4.0 500	uA mA uA V
V <sub>CEO</sub>	I <sub>C</sub> =100mA	9400 9401 9402	80 100		V V
V <sub>CE</sub> (S)	I <sub>C</sub> =4.0A, I <sub>B</sub> =16mA I <sub>C</sub> =7.5A, I <sub>B</sub> =150mA			2.0 2.5	V V
VBE (ON)	V <sub>CE</sub> =3.0V, I <sub>C</sub> =4.0A V <sub>CF</sub> =3.0V, I <sub>C</sub> =7.5A			2.5 3.0	V V
V <sub>BE</sub> (ON) h <sub>FE</sub>	$V_{CF}^{=3.0V}$ , $I_{C}^{=1.0A}$		750 1,000	-	-
հեն րեն	V <sub>CE</sub> =3.0V, I <sub>C</sub> =4.0A V <sub>CE</sub> =3.0V, I <sub>C</sub> =7.5A		100		-
hfe	$V_{CE}=3.0V$ , $I_{C}=4.0A$ , $f=1.0MHz$		1.0		-



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### **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 (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

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

#### **CONTACT US**

#### Corporate Headquarters & Customer Support Team

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# Product End of Life Notification

PDN ID:	PDN01050
Notification Date:	8/24/16
Last Buy Date:	2/24/17
Last Shipment Date	8/24/17

Summary: The SE9300 and SE9400 series of NPN and PNP Darlington power transistors in the TO-220 case 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 various 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 Product Management Process. Any replacement product will be noted below. The effective date for placing the last purchase order will be six(6) months from the date of this notice and twelve(12) months from the notice date for final shipments; this may be extended if inventory is available.

<b>Central Part Number</b>	Replacement	
SE9300	2N6388	
SE9301	2N6388	
SE9302	2N6388	
SE9400	2N6668	
SE9401	2N6668	
SE9402	2N6668	

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.

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