

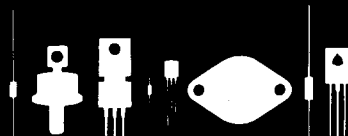
Central
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145 Adams Avenue
Hauppauge, New York 11788



SE9300
SE9301
SE9302

Silicon NPN Transistor

Darlington Power

JEDEC TO-220 Case

DESCRIPTION

The CENTRAL SEMICONDUCTOR SE9300, 01, 02 are Silicon NPN Epitaxial Base, Monolithic Diffused Resistor Type Darlington Construction Power Transistors designed for audio amplifiers and medium power linear and switching applications.

MAXIMUM RATINGS ($T_C=25^{\circ}C$)

		9300	9301	9302
Collector to Emitter Voltage	V_{CE0}	60V	80V	100V
Collector to Base Voltage	V_{CB0}	60V	80V	100V
Emitter to Base Voltage	V_{EB0}	5V	5V	5V
Collector Current	I_C	10A	10A	10A
Power Dissipation	PD	70W	70W	70W
Operating Junction Temperature	T_J	-65 to +150°C		
Storage Temperature	T_{stg}	-65 to +150°C		

ELECTRICAL CHARACTERISTICS ($T_C=25^{\circ}C$)

Symbol	Test Conditions	Min.	Max.	Unit
I_{CBO}	$V_{CE}=\text{Rated } V_{CE0}$		200	μA
I_{EBO}	$V_{EB}=5.0V$		4.0	mA
I_{CEO}	$V_{CE}=0.5 \times \text{Rated } V_{CE0}$		500	μA
V_{CE0}	$I_C=100mA$	9300 9301 9302	60 80 100	V
$V_{CE(S)}$	$I_C=4.0A, I_B=16mA$		2.0	V
$V_{CE(S)}$	$I_C=7.5A, I_B=150mA$		2.5	V
$V_{BE(ON)}$	$V_{CE}=3.0V, I_C=4.0A$		2.5	V
$V_{BE(ON)}$	$V_{CE}=3.0V, I_C=7.5A$		3.0	V
h_{FE}	$V_{CE}=3.0V, I_C=1.0A$	750		-
h_{FE}	$V_{CE}=3.0V, I_C=4.0A$	1,000		-
h_{FE}	$V_{CE}=3.0V, I_C=7.5A$	100		-
h_{fe}	$V_{CE}=3.0V, I_C=4.0A, f=1.0 \text{ MHz}$	1.0		-



To-220

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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<http://www.centrasemi.com>

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.



<u>Central Part Number</u>	<u>Replacement</u>
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@centrasemi.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.

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

-  [View SE9301 on WIN SOURCE](#)
-  [Central Semiconductor Corp Information](#)

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-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management