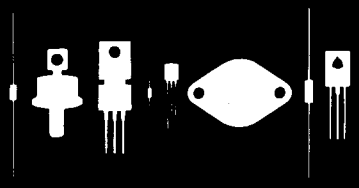
Central
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145 Adams Avenue
Hauppauge, New York 11788



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°C)

		9300	9301	9302
Collector to Emitter Voltage	V_{CEO}	60V	80V	100V
Collector to Base Voltage	V_{CBO}	60V	80V	100V
Emitter to Base Voltage	V_{EBO}	5V	5V	5V
Collector Current	I_C	10A	10A	10A
Power Dissipation	P_D	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°C)

Symbol	Test Conditions		Min.	Max.	Unit
I_{CBO}	V_{CE}=Rated V_{CEO}			200	uA
I_{EBO}	V_{EB}=5.0V			4.0	mA
I_{CEO}	V_{CE}=0.5xRated V_{CEO}			500	uA
V_{CEO}	I_C=100mA	9300	60		V
		9301	80		V
		9302	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 MHz		1.0		-



TO-220

145 Adams Avenue, Hauppauge, NY 11788 USA
Tel: (631) 435-1110 • Fax: (631) 435-1824

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

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

Corporate Headquarters & Customer Support Team

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www.centralsemi.com/wwreps

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

http://www.centralsemi.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.

Central Part Number	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.