

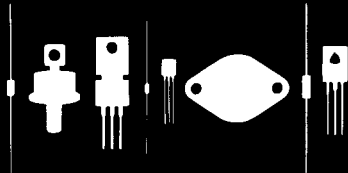
Central
Semiconductor Corp.

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Semiconductor Corp.

145 Adams Avenue
Hauppauge, New York 11788



2N4951
2N4952
2N4953
2N4954

NPN SILICON TRANSISTORS

JEDEC TO-92 CASE (ECB)

DESCRIPTION

The CENTRAL SEMICONDUCTOR 2N4951 Series types are Epoxy Molded Silicon NPN Transistors designed for use as medium power amplifier and switching applications.

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

	SYMBOL		UNIT
Collector-Base Voltage (Except 2N4954)	V_{CB0}	60	V
Collector-Base Voltage (2N4954 only)	V_{CB0}	40	V
Collector-Emitter Voltage	V_{CE0}	30	V
Emitter-Base Voltage	V_{EB0}	5.0	V
Collector Current	I_C	1.0	A
Power Dissipation	P_D	625	mW
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 TO +150	$^{\circ}\text{C}$

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT																																								
I_{CB0}	$V_{CB}=40\text{V}$		50	nA																																								
BV_{CB0} (except 2N4954)	$I_C=1.0\mu\text{A}$	60		V																																								
BV_{CB0} (2N4954 only)	$I_C=1.0\mu\text{A}$	40		V																																								
BV_{CE0}	$I_C=10\text{mA}$	30		V																																								
BV_{EB0}	$I_E=1.0\mu\text{A}$	5.0		V																																								
$V_{CE(SAT)}$	$I_C=150\text{mA}, I_B=15\text{mA}$		0.3	V																																								
$V_{BE(SAT)}$	$I_C=150\text{mA}, I_B=15\text{mA}$		1.3	V																																								
C_{ob}	$V_{CB}=10\text{V}, f=1.0\text{MHz}$		8.0	pF																																								
f_T	$V_{CE}=10\text{V}, I_C=20\text{mA}, f=100\text{MHz}$	250		MHz																																								
t_{off}	$V_{CC}=30\text{V}, I_C=150\text{mA}, I_{B1}=I_{B2}=15\text{mA}$		400	ns																																								
t_{on}	$V_{CC}=30\text{V}, I_C=150\text{mA}, I_{B1}=15\text{mA}$		40	ns																																								
		<table border="1"> <thead> <tr> <th colspan="2">2N4951</th> <th colspan="2">2N4952</th> <th colspan="2">2N4953</th> <th colspan="2">2N4954</th> </tr> <tr> <th>MIN</th> <th>MAX</th> <th>MIN</th> <th>MAX</th> <th>MIN</th> <th>MAX</th> <th>MIN</th> <th>MAX</th> </tr> </thead> <tbody> <tr> <td>20</td> <td></td> <td>50</td> <td></td> <td>75</td> <td></td> <td>20</td> <td></td> </tr> <tr> <td>40</td> <td></td> <td>75</td> <td></td> <td>150</td> <td></td> <td>40</td> <td></td> </tr> <tr> <td>60</td> <td>200</td> <td>100</td> <td>300</td> <td>200</td> <td>600</td> <td>60</td> <td>600</td> </tr> </tbody> </table>		2N4951		2N4952		2N4953		2N4954		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	20		50		75		20		40		75		150		40		60	200	100	300	200	600	60	600	
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To-92(ECB)

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

Central Semiconductor Corp.
145 Adams Avenue
Hauppauge, NY 11788 USA
Main Tel: (631) 435-1110
Main Fax: (631) 435-1824
Support Team Fax: (631) 435-3388
www.centrasemi.com

Worldwide Field Representatives:
www.centrasemi.com/wwreps

Worldwide Distributors:
www.centrasemi.com/wwdistributors

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