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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CJD47 and CJD50 are silicon NPN power transistors manufactured in a surface mount package, and designed for high voltage applications such as power supplies and other switching applications.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T_C=25°C unless otherwise noted)

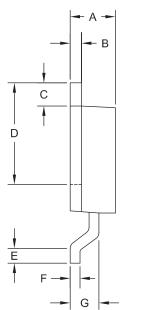
		SYMBOL	CJD47	<u>CJD50</u>	UNITS		
Collector-Base Voltage		VCBO	350	500	V		
Collector-Emitter Voltage		VCEO	250	400	V		
Emitter-Base Voltage		V _{EBO}	5.	0	V		
Continuous Collector Current		IC	1.0		А		
Peak Collector Current		ICM	2.0		А		
Continuous Base Current		۱ _B	60	00	mA		
Power Dissipation		PD	15		W		
Power Dissipation (T _A =25°C)		PD	1.56		W		
Operating and Storage Junction Temperature		т _Ј , Т _{stg}	-65 to +150		°C		
Thermal Resistance		Θ^{JC}	8.33		°C/W		
Thermal Resistance		Θ_{JA}	80.1		°C/W		
ELECTRICAL CHARACTERISTICS: (T _C =25°C unless otherwise noted)							
SYMBOL	TEST CONDITIONS	MIN	MA	X	UNITS		
ICEO	V _{CE} =150V (CJD47)		20	00	μA		
ICEO	V _{CE} =300V (CJD50)		20	00	μA		
ICES	V _{CE} =350V (CJD47)		10	00	μA		
ICES	V _{CE} =500V (CJD50)		10	00	μA		
IEBO	V _{EB} =5.0V		1.	0	mA		
BVCEO	I _C =30mA (CJD47)	250			V		
BVCEO	I _C =30mA (CJD50)	400			V		
V _{CE(SAT)}	I _C =1.0A, I _B =200mA		1.	0	V		
V _{BE(ON)}	V _{CE} =10V, I _C =1.0A		1.	5	V		
h _{FE}	V _{CE} =10V, I _C =300mA	30	15	50			
h _{FE}	V _{CE} =10V, I _C =1.0A	10					
f _T	V_{CE} =10V, I _C =200mA, f=2.0MHz	10			MHz		
h _{fe}	V_{CE} =10V, I _C =200mA, f=1.0kHz	25					

R3 (21-January 2013)



CJD47 CJD50

SURFACE MOUNT SILICON NPN POWER TRANSISTORS



LEAD CODE:

1) Base

2) Collector

4) Collector

MARKING:

FULL PART NUMBER

3) Emitter

DPAK CASE - MECHANICAL OUTLINE

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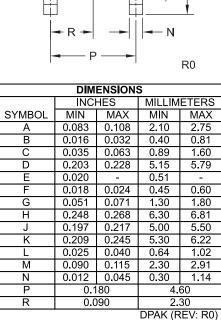
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R3 (21-January 2013)

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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

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

· Custom product packing

Custom bar coding for shipments

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

REQUESTING PRODUCT PLATING

- If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when 1. 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.centralsemi.com

Worldwide Field Representatives: www.centralsemi.com/wwreps

Worldwide Distributors: www.centralsemi.com/wwdistributors

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Product End of Life Notification

PDN ID:	PDN01180 Rev:001
Notification Date:	10/11/21
Last Buy Date:	N/A
Last Shipment Date	N/A

Summary: The following transistors manufactured in the DPAK case are discontinued and now classified as End of Life (EOL). Revision 001, dated October 8, 2021, issued to add CJD13003 and CJD41C which were previously excluded in error.

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
CJD112 TR13	N/A
CJD117 TR13	N/A
CJD122 BK	N/A
CJD122 TR13	N/A
CJD127 TR13	N/A
CJD13003 BK	N/A
CJD13003 TR13	N/A
CJD200 TR13	N/A
CJD2955 TR13	N/A
CJD3055 TR13	N/A
CJD31C TR13	N/A
CJD32C TR13	N/A
CJD340 TR13	N/A
CJD350 TR13	N/A
CJD41C BK	N/A
CJD41C TR13	N/A
CJD42C TR13	N/A
CJD44H11 TR13	N/A
CJD45H11 TR13	N/A
CJD47 TR13	N/A
CJD50 BK	N/A
CJD50 TR13	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. 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.