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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)

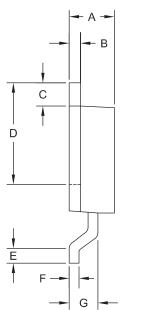
		SYMBOL	CJD47	<u>CJD50</u>	UNITS
Collector-Base Voltage		VCBO	350	500	V
Collector-Emitter Voltage		VCEO	250	400	V
Emitter-Base Voltage		V _{EBO}	5.0		V
Continuous Collector Current		IC	1.0		А
Peak Collector Current		ICM	2.0		А
Continuous Base Current		۱ _B	600		mA
Power Dissipation		PD	15		W
Power Dissipation (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)		100		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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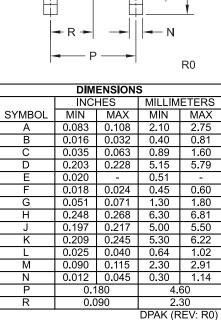
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OUTSTANDING SUPPORT AND SUPERIOR SERVICES



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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