CUD3-02

SURFACE MOUNT SILICON ULTRA FAST RECOVERY RECTIFIER 4.0 AMP, 200 VOLT



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CUD3-02 is a silicon Ultra Fast Recovery rectifier designed for ultra fast switching applications requiring a low forward voltage drop.

MARKING: FULL PART NUMBER



 $\textbf{MAXIMUM RATINGS:} \ (T_{\hbox{\scriptsize C}} = 25 ^{\circ} \hbox{\scriptsize C} \ unless \ otherwise \ noted)$

	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	200	V
Peak Non Repetitive Surge Reverse Voltage	V_{RSM}	200	V
Average Rectified Forward Current (T _C =130°C)	IO	4.0	Α
Continuous Forward RMS Current	IF(RMS)	10	Α
Peak Forward Surge Current, tp=10ms	I _{FSM}	70	Α
Critical Rate of Rise of Reverse Voltage	dv/dt	10,000	V/µs
Operating and Storage Junction Temperature	T _{J,} T _{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JC}	5.0	°C/W

ELECTRICAL CHARACTERISTICS: (T_C=25°C unless otherwise noted)

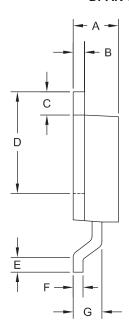
SYMBOL	TEST CONDITIONS	MAX	UNITS
I_{R}	V _R =200V	20	μΑ
I_R	V _R =200V, T _C =100°C	500	μΑ
٧F	I _F =12A	1.25	V
V_{F}	I _F =4.0A, T _C =100°C	0.85	V
t _{rr}	V_R =30V, I_F =1.0A, di/dt=50A/ μ s	35	ns

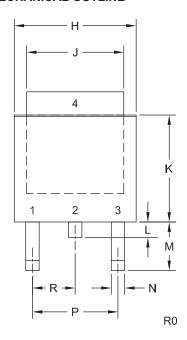
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DPAK CASE - MECHANICAL OUTLINE



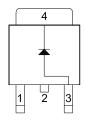


LEAD CODE:

- 1) No Connection
- 2) Cathode
- 3) Anode
- 4) Cathode

Pin 2 is common to the tab (4)

MARKING: FULL PART NUMBER



	DIMENSIONS							
	INCHES		MILLIMETERS					
SYMBOL	MIN	MAX	MIN	MAX				
Α	0.083	0.108	2.10	2.75				
В	0.016	0.032	0.40	0.81				
С	0.035	0.063	0.89	1.60				
D	0.203	0.228	5.15	5.79				
Е	0.020	-	0.51	-				
F	0.018	0.024	0.45	0.60				
G	0.051	0.071	1.30	1.80				
Н	0.248	0.268	6.30	6.81				
J	0.197	0.217	5.00	5.50				
K	0.209	0.245	5.30	6.22				
L	0.025	0.040	0.64	1.02				
М	0.090	0.115	2.30	2.91				
N	0.012	0.045	0.30	1.14				
Р	0.180		4.60					
R	0.090		2.30					
DPAK (REV: R0)								

R8 (21-January 2013)

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

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

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