CUD6-02C

SURFACE MOUNT SILICON DUAL, COMMON CATHODE ULTRA FAST RECOVERY RECTIFIER 6.0 AMP, 200 VOLT



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CUD6-02C is a silicon Ultra Fast Recovery rectifier designed for ultra fast switching applications requiring a low forward voltage drop.

MARKING: FULL PART NUMBER



MAXIMUM RATINGS: (T_C=25°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	6.0	Α
Continuous Forward RMS Current	lF(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 PER DIODE: (T_C=25°C unless otherwise noted)

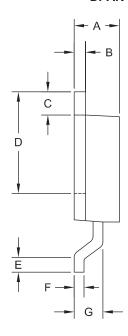
SYMBOL	TEST CONDITIONS	MAX	UNITS
I_{R}	V _R =200V	20	μΑ
I_R	V _R =200V, T _C =100°C	500	μΑ
V_{F}	I _F =10A	1.25	V
V_{F}	I _F =5.0A, T _C =100°C	0.85	V
t _{rr}	V_R =30V, I_F =1.0A, di/dt=50A/ μ s	35	ns

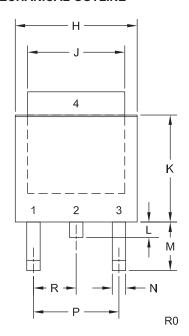
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DPAK CASE - MECHANICAL OUTLINE

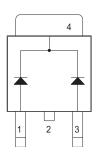




LEAD CODE:

- 1) Anode 1
- 2) Cathode
- 3) Anode 2
- 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		
E	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 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

- 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

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