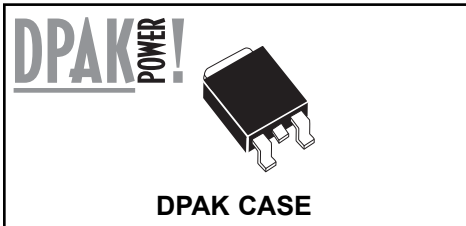


**CUD6-02A**  
**SURFACE MOUNT**  
**ULTRA-FAST RECOVERY**  
**RECTIFIER**  
**DUAL, COMMON ANODE**  
**6.0 AMPS, 200 VOLTS**



**Central**<sup>TM</sup>  
**Semiconductor Corp.**

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CUD6-02A, Silicon Ultra-Fast Recovery Rectifier is a high quality, well constructed, highly reliable component designed for use in all types of commercial, industrial, entertainment, computer, and automotive applications.

**MAXIMUM RATINGS:** ( $T_C=25^\circ\text{C}$  unless otherwise noted)

	<b>SYMBOL</b>		<b>UNIT</b>
Peak Repetitive Reverse Voltage	$V_{RRM}$	200	V
Peak Non Repetitive Surge Reverse Voltage	$V_{RSM}$	200	V
Average Forward Current ( $T_C=130^\circ\text{C}$ )	$I_O$	6.0	A
RMS Forward Current Per Diode	$I_F(\text{RMS})$	10	A
Peak Forward Surge Current Per Diode ( $t_p=10\text{ms}$ )	$I_{FSM}$	70	A
Critical Rate of Rise of Reverse Voltage	$dV/dt$	10,000	V/ $\mu\text{s}$
Operating and Storage Junction Temperature	$T_J, T_{stg}$	-65 to +150	$^\circ\text{C}$
Thermal Resistance, Per Diode	$\Theta_{JC}$	5.0	$^\circ\text{C/W}$

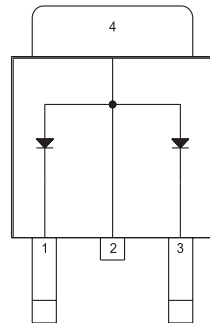
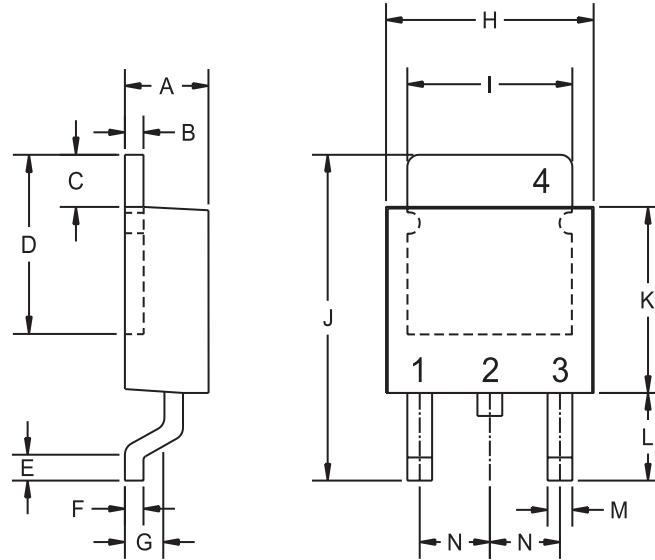
**ELECTRICAL CHARACTERISTICS PER DIODE:** ( $T_C=25^\circ\text{C}$  unless otherwise noted)

<b>SYMBOL</b>	<b>TEST CONDITIONS</b>	<b>MIN</b>	<b>MAX</b>	<b>UNIT</b>
$I_R$	$V_R=200\text{V}$		20	$\mu\text{A}$
$I_R$	$V_R=200\text{V}, T_C=100^\circ\text{C}$		500	$\mu\text{A}$
$V_F$	$I_F=10\text{A}$		1.25	V
$V_F$	$I_F=5.0\text{A}, T_C=100^\circ\text{C}$		0.85	V
$t_{rr}$	$V_R=30\text{V}, I_F=1.0\text{A}, di/dt=50\text{A/ms}$		35	ns

R0 ( 20-September 2001)

**SURFACE MOUNT  
ULTRA-FAST RECOVERY  
RECTIFIER  
DUAL, COMMON ANODE  
6.0 AMPS, 200 VOLTS**

**DPAK RECTIFIER CASE - MECHANICAL OUTLINE**



**LEAD CODE:**

- 1) Cathode #1
- 2) Common Anode
- 3) Cathode #2
- 4) Common Anode

Pin 2 is common to the tab (4).

R1

SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.093	0.108	2.35	2.75
B	0.016	0.024	0.40	0.60
C	0.063		1.60	
D	0.203	0.219	5.15	5.55
E	0.012	0.028	0.30	0.70
F	0.020		0.50	
G	0.035	0.051	0.90	1.30
H	0.252	0.268	6.40	6.80
I	0.197	0.213	5.00	5.40
J	-	0.394	-	10.00
K	0.209	0.224	5.30	5.70
L	0.090	0.106	2.30	2.70
M	0.016	0.031	0.40	0.80
N	0.091		2.30	

DPAK RECTIFIER (REV: R1)