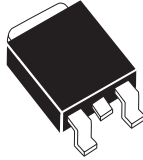


**CUD6-02C**

**ULTRA FAST RECOVERY RECTIFIER  
DUAL, COMMON CATHODE  
6.0 AMPS, 200 VOLTS**

**DPAK**  
**POWER!**

**DPAK CASE**

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

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CUD6-02C, 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.

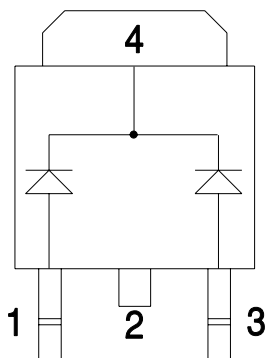
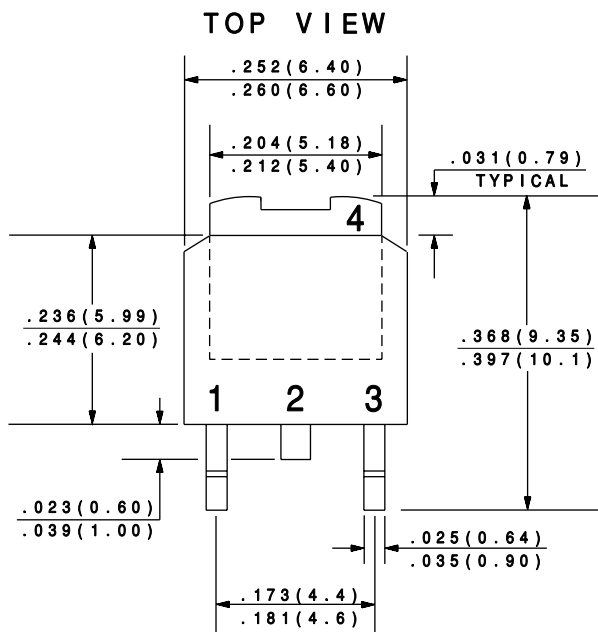
**MAXIMUM RATINGS:** ( $T_C=25^{\circ}\text{C}$  unless otherwise noted)

	SYMBOL		UNITS
Peak Working Reverse Voltage	$V_{RRM}$	200	V
DC Blocking Voltage	$V_R$	200	V
Average Rectified Forward Current ( $T_C=125^{\circ}\text{C}$ ) Per Diode	$I_O$	3.0	A
Average Rectified Forward Current ( $T_C=125^{\circ}\text{C}$ ) Per Device	$I_O$	6.0	A
Peak Repetitive Forward Current ( $T_C=125^{\circ}\text{C}$ )	$I_{FRM}$	6.0	A
Peak Forward Surge Current ( $t_p=2\ \mu\text{s}$ )	$I_{FSM}$	75	A
Operating and Storage			
Junction Temperature	$T_J, T_{stg}$	-65 to +150	$^{\circ}\text{C}$
Thermal Resistance	$\Theta_{JC}$	6.0	$^{\circ}\text{C/W}$

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
$I_R$	$V_R=200\text{V}$		5.0	$\mu\text{A}$
$I_R$	$V_R=200\text{V}, T_C=125^{\circ}\text{C}$		500	$\mu\text{A}$
$V_F$	$I_F=3.0\text{A}$		1.0	V
$V_F$	$I_F=3.0\text{A}, T_C=125^{\circ}\text{C}$		0.95	V
$V_F$	$I_F=6.0\text{A}$		1.2	V
$V_F$	$I_F=6.0\text{A}, T_C=125^{\circ}\text{C}$		1.1	V
$t_{rr}$	$V_R=30\text{V}, I_F=1.0\text{A}, di/dt=50\text{A}/\mu\text{s}$		35	ns

The diagram shows a vertical pipe assembly. At the top, there is a horizontal pipe section with an arrow pointing right. Below this, a vertical pipe section has an arrow pointing left. Further down, another horizontal pipe section has an arrow pointing right. Below that, a vertical pipe section has an arrow pointing left. At the bottom, a horizontal pipe section has an arrow pointing right. The vertical pipe section in the middle has a flange at the top and a horizontal pipe section at the bottom. Numerical values in parentheses are provided for different sections of the pipe: .086 (2.18), .094 (2.40), .019 (0.48), .023 (0.60), .001 (0.03), .009 (0.23), .017 (0.43), .023 (0.60), .035 (0.89), and .043 (1.10).



- 1) ANODE 1
- 2) CATHODE
- 3) ANODE 2
- 4) CATHODE

R1