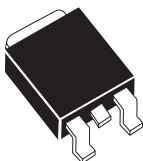




CUD3-02

**ULTRA FAST RECOVERY RECTIFIER
SINGLE, 3.0 AMPS, 200 VOLTS**

DPAK POWER!



DPAK CASE

CentralTM
Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CUD3-02, 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.

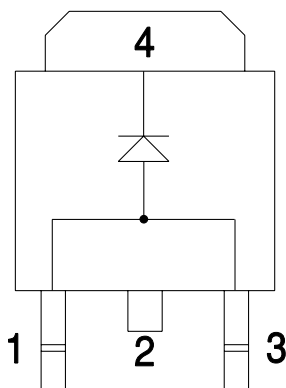
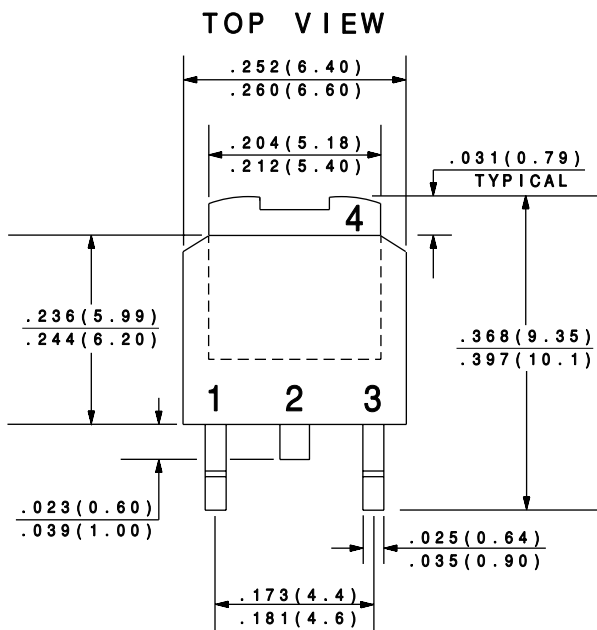
MAXIMUM RATINGS: ($T_C=25^{\circ}\text{C}$ unless otherwise noted)

	SYMBOL		UNITS
Peak Working Reverse Voltage	V_{RRM}	200	V
DC Blocking Voltage	V_R	200	V
Average Rectified Forward Current ($T_C=125^{\circ}\text{C}$)	I_O	3.0	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	θ_{JC}	6.0	$^{\circ}\text{C/W}$

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
I_R	$V_R=200\text{V}$		5.0	μA
I_R	$V_R=200\text{V}, T_C=125^{\circ}\text{C}$		500	μA
V_F	$I_F=3.0\text{A}$		0.95	V
V_F	$I_F=3.0\text{A}, T_C=125^{\circ}\text{C}$		0.75	V
t_{rr}	$V_R=30\text{V}, I_F=1.0\text{A}, di/dt=50\text{A}/\mu\text{s}$		35	ns

Figure 1 is a schematic diagram of a vertical pipe assembly. The diagram shows a vertical pipe with several fittings, including a flange, a tee, and a elbow. Dimensions are given in inches and millimeters. The dimensions are: .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). Arrows indicate the direction of flow or measurement.



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

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