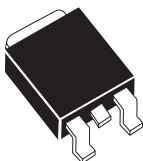




CUD3-02

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

DPAK POWER!



DPAK CASE

CentralTM
Semiconductor Corp.

DESCRIPTION:

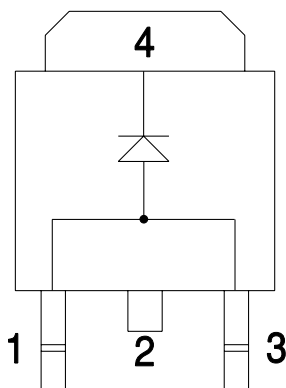
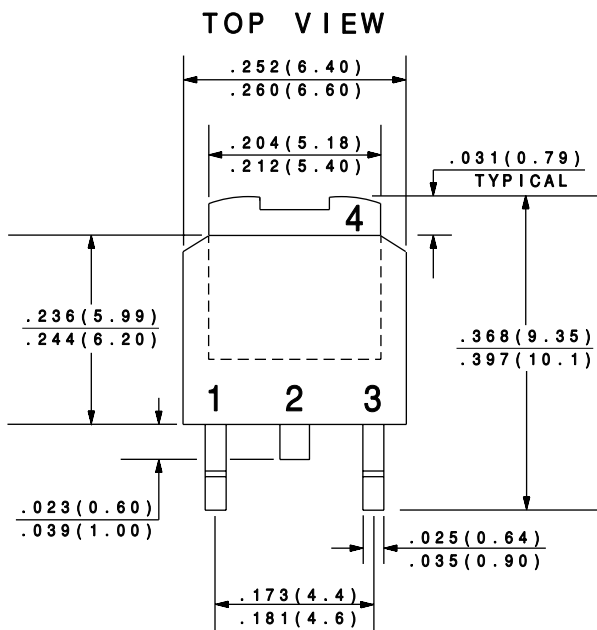
The CENTRAL SEMICONDUCTOR CUD3-02, Silicon Ultra Fast Recovery Rectifier is a high quality, well constructed, highly reliable component designed for use in all types of commercial, industrial, entertainment, computer and automotive applications.

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



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

R1