



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°C unless otherwise noted)

	SYMBOL		UNIT
Peak Repetitive Reverse Voltage	V _{RRM}	200	V
Peak Non Repetitive Surge Reverse Voltage	V _{RSM}	200	V
Average Forward Current (T _C =130°C)	I _O	6.0	А
RMS Forward Current Per Diode	I _F (RMS)	10	А
Peak Forward Surge Current Per Diode (tp=10ms)	I _{FSM}	70	А
Critical Rate of Rise of Reverse Voltage Operating and Storage	dV/dt	10,000	V/μs
Junction Temperature	TJ,Tstg	-65 to +150	°C
Thermal Resistance, Per Diode	ΘJC	5.0	°C/W

ELECTRICAL CHARACTERISTICS PER DIODE: (T_C=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
I _R	V _R =200V		20	μΑ
I _R	V _R =200V, T _C =100°C		500	μA
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, IF=1.0A, di/dt=50A/ms		35	ns

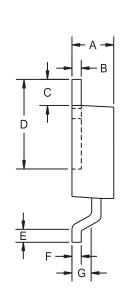
R0 (20-September 2001)

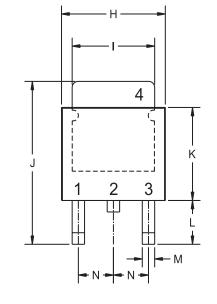


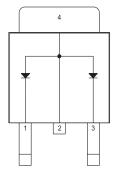
CUD6-02A

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

DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
А	0.093	0.108	2.35	2.75			
В	0.016	0.024	0.40	0.60			
С	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			
Н	0.252	0.268	6.40	6.80			
	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			
М	0.016	0.031	0.40	0.80			
N	0.091		2.30				

DPAK RECTIFIER (REV: R1)

R0 (20-September 2001)