CMKD2836 CMKD2838

SURFACE MOUNT ULTRAmini™ DUAL PAIR HIGH SPEED SWITCHING SILICON DIODES



The following configurations are available:

**Central** Semiconductor Corp.

## **DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CMKD2836 and CMKD2838 types consist of four high speed switching diodes arranged in two electrically isolated configurations (Common Anode and Common Cathode). These devices are manufactured by the epitaxial planar process, in an epoxy molded ULTRAmini™ surface mount package, designed for high speed switching applications.

CMKD2836 DUAL PAIR, COMMOM ANODE MARKING CODE: K36
CMKD2838 DUAL PAIR, COMMON CATHODE MARKING CODE: K38

MAXIMUM RATINGS: (T<sub>A</sub>=25°C)

	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	$V_{RRM}$	75	V
Average Forward Current	lo	200	mA
Peak Forward Current	I <sub>FM</sub>	300	mA
Power Dissipation	$P_{D}$	350	mW
Operating and Storage			
Junction Temperature	$T_{J}, T_{stg}$	-65 to +150	°C
Thermal Resistance	$\Theta_{JA}$	357	°C/W

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

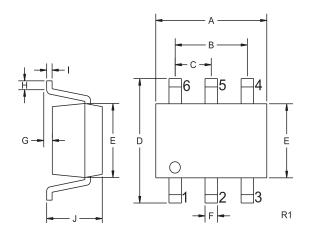
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
B <sub>VR</sub>	I <sub>R</sub> =100μA	75			V
$I_{R}$	V <sub>R</sub> =50V			100	nA
$V_{F}$	I <sub>F</sub> =10mA			1.0	V
$V_{F}$	I <sub>F</sub> =50mA			1.0	V
$V_{F}$	I <sub>F</sub> =100mA			1.2	V
$c_T$	V <sub>R</sub> =0, f=1 MHz		1.5	4.0	pF
t <sub>rr</sub>	$I_R = I_F = 10$ mA, $R_L = 100\Omega$ , Rec. to 1.0mA			4.0	ns



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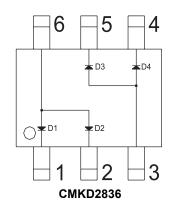
## **SOT-363 CASE - MECHANICAL OUTLINE**



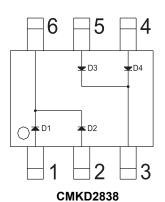
DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
Α	0.073	0.085	1.85	2.15			
В	0.051		1.30				
С	0.026		0.65				
D	0.075	0.091	1.90	2.30			
E	0.043	0.055	1.10	1.40			
F	0.006	0.012	0.15	0.30			
G	0.000	0.004	0.00	0.10			
Н	0.010	-	0.25	-			
	0.004	0.010	0.10	0.25			
J	0.031	0.039	0.80	1.00			

SOT-363 (REV: R1)

**PIN OUT** 



MARKING CODE: CMKD2836: K36 CMKD2838: K38



R1 (13-November 2002)