CMKD2836
CMKD2838

SURFACE MOUNT
DUAL PAIR
HIGH SPEED SILICON
SWITCHING DIODES

ULTRAmini™

SOT-363 CASE

Central Semiconductor Corp.

www.centralsemi.com

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.

The following configurations are available:

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

MAXIMUM RATINGS: (T_A=25°C)	**SYMBOL**		**UNITS**
Peak Repetitive Reverse Voltage	V_{RRM}	75	V
Average Forward Current	I_O	200	mA
Peak Forward Current	I_{FM}	300	mA
Power Dissipation	P_D	350	mW
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	357	°C/W

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

SYMBOL	**TEST CONDITIONS**	**MIN**	**TYP**	**MAX**	**UNITS**
I_R	V_R=50V			100	nA
BV_R	I_R=100μA	75			V
V_F	I_F=10mA			1.0	V
V_F	I_F=50mA			1.0	V
V_F	I_F=100mA			1.2	V
C_T	V_R=0, f=1.0MHz		1.5	4.0	pF
t_{rr}	I_R=I_F=10mA, R_L=100Ω, Rec. to 1.0mA			4.0	ns

R4 (13-January 2010)

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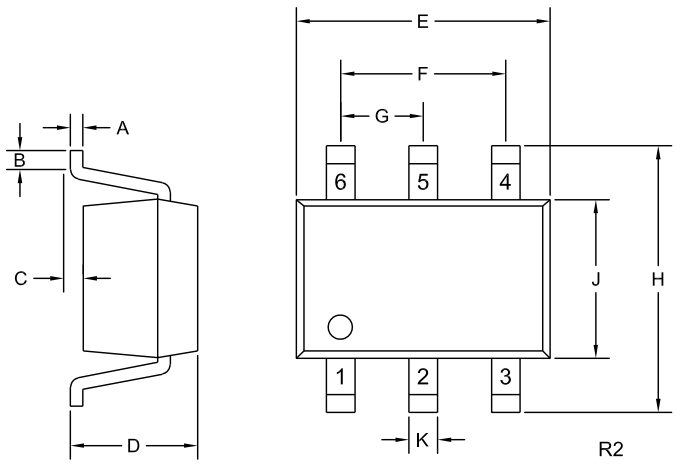
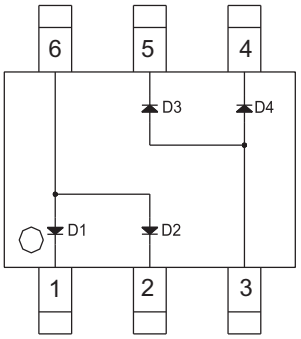
SOT-363 CASE - MECHANICAL OUTLINE



DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	0.004	0.010	0.10	0.25
B	0.005	-	0.12	-
C	0.000	0.004	0.00	0.10
D	0.031	0.043	0.80	1.10
E	0.071	0.087	1.80	2.20
F	0.051		1.30	
G	0.026		0.65	
H	0.075	0.091	1.90	2.30
J	0.043	0.055	1.10	1.40
K	0.006	0.012	0.15	0.30

SOT-363 (REV: R2)

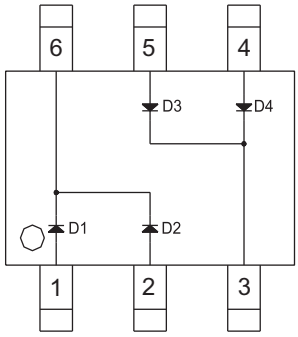
PIN CONFIGURATIONS



CMKD2836

LEAD CODE:
1) Cathode D1
2) Cathode D2
3) Anode D3, D4
4) Cathode D4
5) Cathode D3
6) Anode D1, D2

MARKING CODE: K36



CMKD2838

LEAD CODE:
1) Anode D1
2) Anode D2
3) Cathode D3, D4
4) Anode D4
5) Anode D3
6) Cathode D1, D2

MARKING CODE: K38

R4 (13-January 2010)