



CMKD2836
CMKD2838

**SURFACE MOUNT ULTRAmi™
DUAL PAIR
HIGH SPEED SILICON
SWITCHING DIODES**

ULTRAmi™



SOT-363 CASE

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 ULTRAmi™ surface mount package, designed for high speed switching applications.

The following configurations are available:

CMKD2836 DUAL PAIR, COMMON ANODE
CMKD2838 DUAL PAIR, COMMON CATHODE

MARKING CODE: K36

MARKING CODE: K38

MAXIMUM RATINGS: (T_A=25°C)

Peak Repetitive Reverse Voltage
Average Forward Current
Peak Forward Current
Power Dissipation
Operating and Storage Junction Temperature
Thermal Resistance

SYMBOL

V_{RRM} 75
I_O 200
I_{FM} 300
P_D 350
T_J, T_{stg} -65 to +150
θ_{JA} 357

UNITS

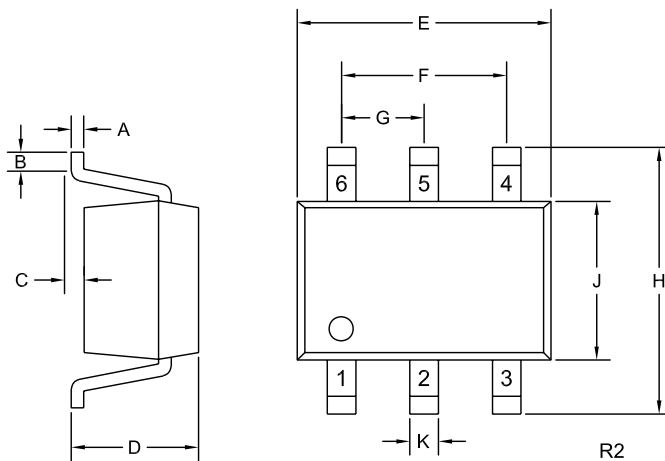
V
mA
mA
mW
°C
°C/W

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

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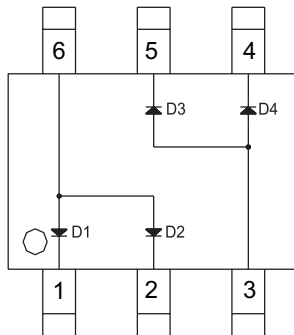
SOT-363 CASE - MECHANICAL OUTLINE



SYMBOL	INCHES		MILLIMETERS	
	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

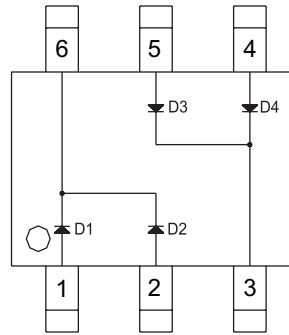


CMKD2836

LEAD CODE:

- 1) CATHODE D1
- 2) CATHODE D2
- 3) ANODE D3, D4
- 4) CATHODE D3, 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