CMSD2836
CMSD2838

SURFACE MOUNT
DUAL SILICON
SWITCHING DIODES

SUPERmini™

SOT-323 CASE

Central
Semiconductor Corp.

DESCRIPTION:
The CENTRAL SEMICONDUCTOR CMSD2836 and CMSD2838 are ultra-high speed silicon switching diodes manufactured by the epitaxial planar process, in an epoxy molded SUPERmini™ surface mount package, designed for high speed switching applications.

The following configurations are available:

CMSD2836 DUAL, COMMOM ANODE   **MARKING CODE: A2C**
CMSD2838 DUAL, COMMON CATHODE **MARKING CODE: A6C**

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, tp=1.0s	I_{FM}	300	mA
Power Dissipation	P_D	275	mW
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	455	°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, I_{rr}=1.0mA, R_L=100Ω			4.0	ns

R4 (8-February 2010)

CMSD2836
CMSD2838

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SWITCHING DIODES

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SOT-323 CASE - MECHANICAL OUTLINE
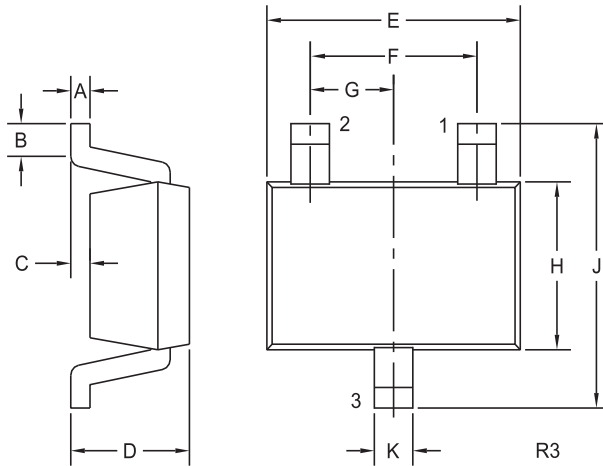
DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	0.002	0.008	0.05	0.20
B	0.004	-	0.10	-
C	-	0.004	-	0.10
D	0.031	0.043	0.80	1.10
E	0.071	0.087	1.80	2.20
F	0.051		1.30	
G	0.026		0.65	
H	0.045	0.053	1.15	1.35
J	0.079	0.087	2.00	2.20
K	0.008	0.016	0.20	0.40

SOT-323 (REV: R3)

PIN CONFIGURATIONS
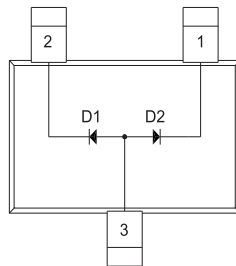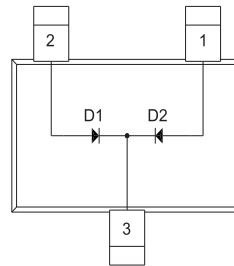

CMSD2836

LEAD CODE:
1) Cathode D2
2) Cathode D1
3) Anode D1, D2

MARKING CODE: A2C

CMSD2838

LEAD CODE:
1) Anode D2
2) Anode D1
3) Cathode D1, D2

MARKING CODE: A6C

R4 (8-February 2010)

OUTSTANDING SUPPORT AND SUPERIOR SERVICES

Central
Semiconductor Corp. ™

PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

• Supply management (Customer portals)
• Inventory bonding
• Consolidated shipping options

• Custom bar coding for shipments
• Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

• Free quick ship samples (2nd day air)
• Online technical data and parametric search
• SPICE models
• Custom electrical curves
• Environmental regulation compliance
• Customer specific screening
• Up-screening capabilities

• Special wafer diffusions
• PbSn plating options
• Package details
• Application notes
• Application and design sample kits
• Custom product and package development

REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix " TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix " PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

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