CMSD2836 CMSD2838

SURFACE MOUNT SUPERmini™ DUAL SILICON SWITCHING DIODES



DESCRIPTION:

Semiconductor Corp.

The CENTRAL SEMICONDUCTOR CMSD2836 and CMSD2838 types 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<sub>A</sub>=25°C)

Peak Repetitive Reverse Voltage Average Forward Current	SYMBOL		UNITS	
Peak Repetitive Reverse Voltage	$V_{RRM}$	75	V	
Average Forward Current	IO	200	mA	
Peak Forward Current	I <sub>FM</sub>	300	mA	
Power Dissipation	$P_D$	250	mW	
Operating and Storage Junction Temperature	T <sub>J</sub> ,T <sub>stg</sub>	-65 to +150	°C	
Thermal Resistance	ΘιΔ	500	°C/W	

**ELECTRICAL CHARACTERISTICS PER DIODE:** (T<sub>A</sub>=25°C unless otherwise noted)

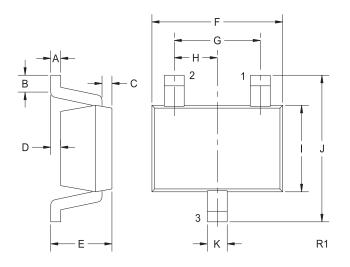
SYMBOL B <sub>VR</sub>	TEST CONDITIONS I <sub>R</sub> =100µA	<b>MIN</b> 75	TYP	MAX	UNITS V
$I_{R}$	$V_R=50V$			100	nA
$V_{F}$	I <sub>F</sub> =10mA			1.0	V
$V_{F}$	I <sub>F</sub> =50mA			1.0	V
$V_{F}$	I <sub>F</sub> =100mA			1.2	V
C <sub>T</sub>	$V_R=0$ , f=1 MHz		1.5	4.0	pF
t <sub>rr</sub>	$I_R=I_F=10$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



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SUPERmini™
DUAL SILICON
SWITCHING DIODES

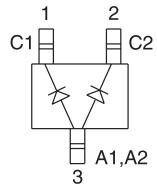
## **SOT-323 CASE - MECHANICAL OUTLINE**



DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
Α	0.004	0.008	0.10	0.20			
В	0.004	-	0.10	-			
С	0.004	0.008	0.10	0.20			
D	-	0.004	-	0.10			
E	0.031	0.043	0.80	1.10			
F	0.071	0.087	1.80	2.20			
G	0.051		1.30				
Н	0.026		0.65				
	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: R1)							

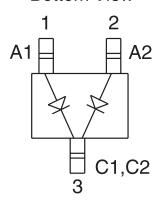
SOT-323 (REV: R1)

**Bottom View** 



CMSD2836 MARKING CODE: A2C

**Bottom View** 



CMSD2838
MARKING CODE: A6C

R2 (14-November 2002)