CMSD2836
CMSD2838

SURFACE MOUNT
SUPERmini™
DUAL SILICON
SWITCHING DIODES

SOT-323 CASE

Central™
Semiconductor Corp.

DESCRIPTION:

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_A=25°C)

	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	75	V
Average Forward Current	I_O	200	mA
Peak Forward Current (1 sec)	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
BV_R	I_R=100μA	75			V
I_R	V_R=50V			100	nA
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 MHz		1.5	4.0	pF
t_{rr}	I_R=I_F=10mA, R_L=100Ω, Rec. to 1.0mA			4.0	ns

R3 (4-January 2004)

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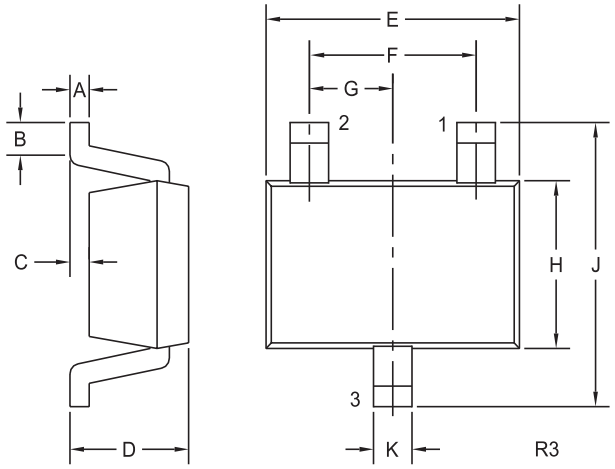
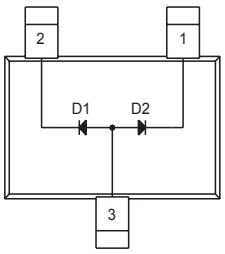
SOT-323 CASE - MECHANICAL OUTLINE

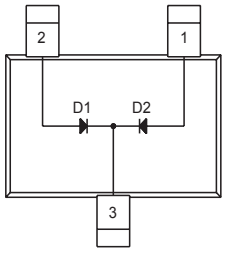




CMSD2836

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

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)

R3 (4-January 2004)