CMPD2836E
CMPD2838E

ENHANCED SPECIFICATION
SURFACE MOUNT
DUAL, SILICON
SWITCHING DIODES

ENHANCED E SPECIFICATION

SOT-23 CASE

Central Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPD2836E and CMPD2838E are Enhanced versions of the CMPD2836 and CMPD2838 High Speed Switching Diodes. These devices are manufactured by the epitaxial planar process, in an epoxy molded surface mount SOT-23 package, designed for high speed switching applications.

FEATURED ENHANCED SPECIFICATIONS:

- ♦ BV_R from 75V min to 120V min.
- ♦ V_F from 1.2V max to 1.0V max.

The following configurations are available:

CMPD2836E	DUAL, COMMON ANODE	**MARKING CODE: CA2E**
CMPD2838E	DUAL, COMMON CATHODE	**MARKING CODE: CA6E**

MAXIMUM RATINGS: (T_A=25°C)	**SYMBOL**		**UNITS**
♦ **Peak Repetitive Reverse Voltage**	**V_{RRM}**	**120**	**V**
Average Forward Current	I_O	200	mA
Peak Forward Current, tp=1.0s	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=80V**			**100**	**nA**
♦	**BV_R**	**I_R=100μA**	**120**	**150**		**V**
♦	**V_F**	**I_F=10mA**		**0.72**	**0.85**	**V**
♦	**V_F**	**I_F=50mA**		**0.84**	**0.95**	**V**
♦	**V_F**	**I_F=100mA**		**0.92**	**1.0**	**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

♦ Enhanced specification

R3 (25-January 2010)

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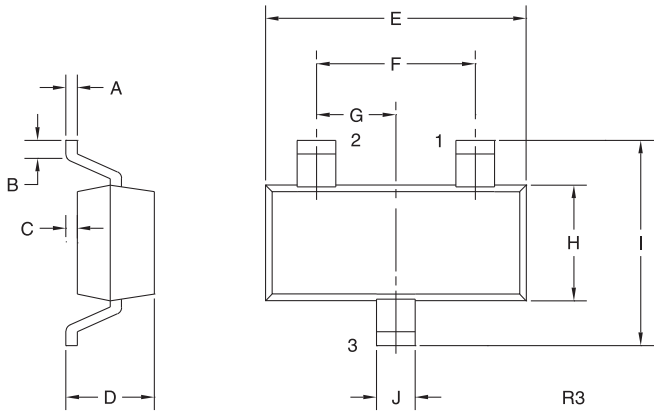
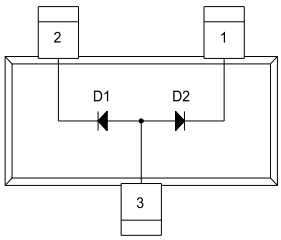
SOT-23 CASE - MECHANICAL OUTLINE



DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	0.003	0.007	0.08	0.18
B	0.006	-	0.15	-
C	-	0.005	-	0.13
D	0.035	0.043	0.89	1.09
E	0.110	0.120	2.80	3.05
F	0.075		1.90	
G	0.037		0.95	
H	0.047	0.055	1.19	1.40
I	0.083	0.098	2.10	2.49
J	0.014	0.020	0.35	0.50

SOT-23 (REV: R3)

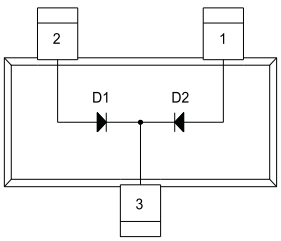
PIN CONFIGURATIONS



CMPD2836E

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

MARKING CODE: CA2E



CMPD2838E

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

MARKING CODE: CA6E

R3 (25-January 2010)

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OUTSTANDING SUPPORT AND SUPERIOR SERVICES

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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