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sales@integrated-circuit.com

**CMPD2836E
CMPD2838E**

**ENHANCED SPECIFICATION
SURFACE MOUNT
DUAL, SILICON
SWITCHING DIODES**



SOT-23 CASE



www.centrasemi.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
CMPD2838E DUAL, COMMON CATHODE

MARKING CODE: CA2E

MARKING CODE: CA6E

MAXIMUM RATINGS: ($T_A=25^\circ\text{C}$)

◆ **Peak Repetitive Reverse Voltage**

Average Forward Current

Peak Forward Current, $t_p=1.0\text{s}$

Power Dissipation

Operating and Storage Junction Temperature

Thermal Resistance

SYMBOL

V_{RRM}

I_O

I_{FM}

P_D

T_J, T_{stg}

Θ_{JA}

120

200

300

350

-65 to +150

357

UNITS

V

mA

mA

mW

$^\circ\text{C}$

$^\circ\text{C/W}$

ELECTRICAL CHARACTERISTICS PER DIODE: ($T_A=25^\circ\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
◆ I_R	$V_R=80\text{V}$			100	nA
◆ BV_R	$I_R=100\mu\text{A}$	120	150		V
◆ V_F	$I_F=10\text{mA}$		0.72	0.85	V
◆ V_F	$I_F=50\text{mA}$		0.84	0.95	V
◆ V_F	$I_F=100\text{mA}$		0.92	1.0	V
C_T	$V_R=0, f=1.0\text{MHz}$		1.5	4.0	pF
t_{rr}	$I_R=I_F=10\text{mA}, R_L=100\Omega, \text{Rec. to } 1.0\text{mA}$			4.0	ns

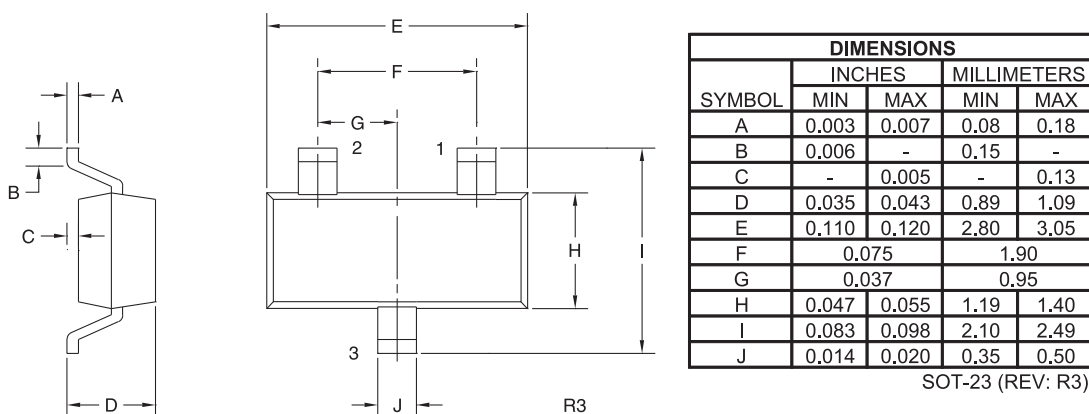
◆ Enhanced specification

**CMPD2836E
CMPD2838E**

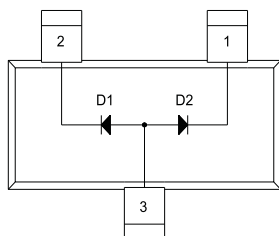
**ENHANCED SPECIFICATION
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SOT-23 CASE - MECHANICAL OUTLINE



PIN CONFIGURATIONS

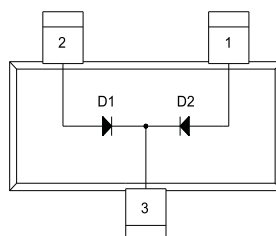


CMPD2836E

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)

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

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