

The following configurations are available:
 CMPD2836E DUAL, COMMON ANODE
 CMPD2838E DUAL, COMMON CATHODE

Central Semiconductor Corp.TM

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.

MARKING CODE: CA2E
MARKING CODE: CA6E

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

◆ Peak Repetitive Reverse Voltage

Average Forward Current

SYMBOL		UNITS
V_{RRM}	120	V
I_O	200	mA
I_{FM}	300	mA
P_D	350	mW
T_J, T_{stg}	-65 to +150	$^\circ\text{C}$
Θ_{JA}	357	$^\circ\text{C}/\text{W}$

Power Dissipation

Operating and Storage

Junction Temperature

Thermal Resistance

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
◆ BV_R	$I_R=100\mu\text{A}$	120	150		V
◆ I_R	$V_R=80\text{V}$			100	nA
◆ 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	$V_R=0, f=1 \text{ MHz}$		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.

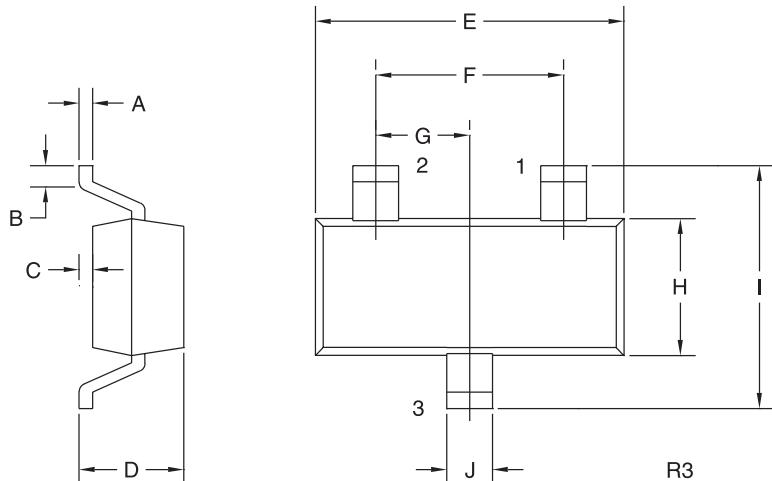
R2 (6-August 2003)

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CMPD2836E
CMPD2838E

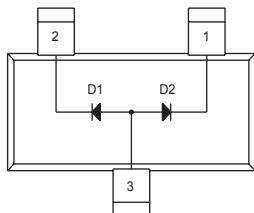
ENHANCED SPECIFICATION
SURFACE MOUNT
DUAL, SILICON
SWITCHING DIODES

SOT-23 CASE - MECHANICAL OUTLINE



SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	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

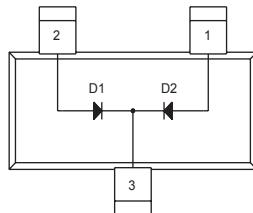
SOT-23 (REV: R3)



CMPD2836E

- 1) Cathode D2
- 2) Cathode D1
- 3) Anode D1, Anode D2

MARKING CODE: CA2E



CMPD2838E

- 1) Anode D2
- 2) Anode D1
- 3) Cathode D1, Cathode D2

MARKING CODE: CA6E

R2 (6-August 2003)