

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

CentralTM
Semiconductor Corp.

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

	SYMBOL		UNITS
◆ Peak Repetitive Reverse Voltage	V_{RRM}	120	V
Average Forward Current	I_O	200	mA
Peak Forward Current ($t_p=1.0\text{s}$)	I_{FM}	300	mA
Power Dissipation	P_D	350	mW
Operating and Storage			
Junction Temperature	T_J, T_{Stg}	-65 to +150	$^\circ\text{C}$
Thermal Resistance	Θ_{JA}	357	$^\circ\text{C}/\text{W}$

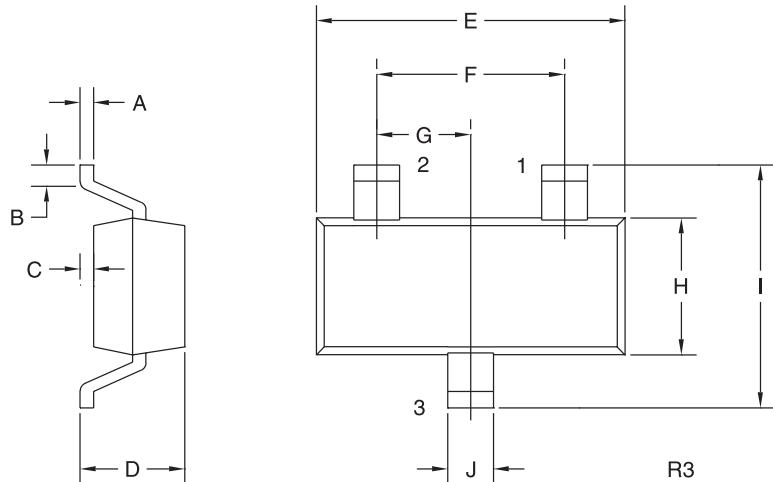
ELECTRICAL CHARACTERISTICS PER DIODE: ($T_A=25^\circ\text{C}$ unless otherwise noted)

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.

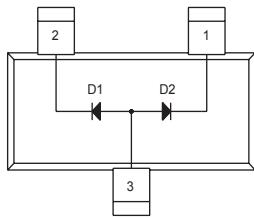
ENHANCED SPECIFICATION
SURFACE MOUNT
DUAL, SILICON
SWITCHING DIODES

SOT-23 CASE - MECHANICAL OUTLINE



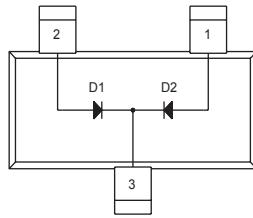
SYMBOL	DIMENSIONS			
	INCHES	MILLIMETERS	MIN	MAX
A	0.003	0.007	0.08	0.18
B	0.006	-	0.15	-
C	-	0.005	-	0.13
D	0.035	0.043	0.89	1.09
E	0.110	0.120	2.80	3.05
F	0.075	-	1.90	-
G	0.037	-	0.95	-
H	0.047	0.055	1.19	1.40
I	0.083	0.098	2.10	2.49
J	0.014	0.020	0.35	0.50

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)