

CMPD2836
CMPD2838

SURFACE MOUNT
DUAL, SILICON
SWITCHING DIODES



SOT-23 CASE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPD2836 and CMPD2838 types are ultra-high speed switching diodes manufactured by the epitaxial planar process, in an epoxy molded surface mount package, designed for high speed switching applications.

The following configurations are available:

CMPD2836 DUAL, COMMON ANODE
CMPD2838 DUAL, COMMON CATHODE

MARKING CODE: CA2
MARKING CODE: CA6

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

Peak Repetitive Reverse Voltage
Average Forward Current
Peak Forward Current
Power Dissipation
Operating and Storage Junction Temperature
Thermal Resistance

SYMBOL

V_{RRM} 75
 I_O 200
 I_{FM} 300
 P_D 350
 T_J, T_{stg} -65 to +150
 Θ_{JA} 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	$V_R=50\text{V}$			100	nA
BV_R	$I_R=100\mu\text{A}$	75			V
V_F	$I_F=10\text{mA}$			1.0	V
V_F	$I_F=50\text{mA}$			1.0	V
V_F	$I_F=100\text{mA}$			1.2	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

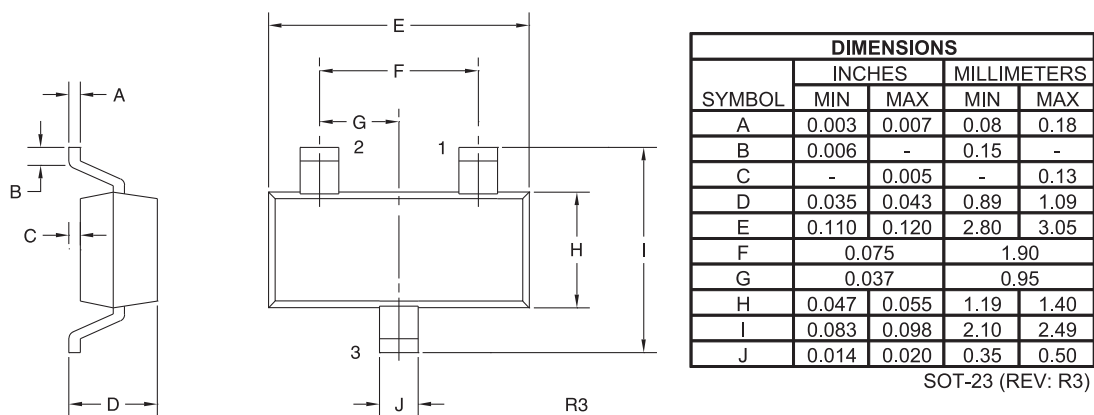
R6 (25-January 2010)

**CMPD2836
CMPD2838**

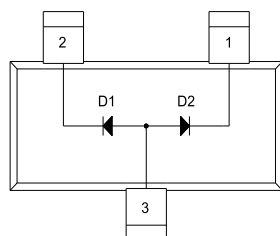
**SURFACE MOUNT
DUAL, SILICON
SWITCHING DIODES**



SOT-23 CASE - MECHANICAL OUTLINE

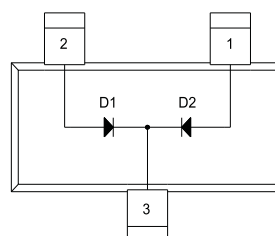


PIN CONFIGURATIONS



CMPD2836
LEAD CODE:
 1) Cathode D2
 2) Cathode D1
 3) Anode D1, D2

MARKING CODE: CA2



CMPD2838
LEAD CODE:
 1) Anode D2
 2) Anode D1
 3) Cathode D1, D2

MARKING CODE: CA6

R6 (25-January 2010)