

CMPD2836E



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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:CMPD2836EDUAL, COMMON ANODECMPD2838EDUAL, COMMON CATHODE

MARKING CODE: CA2E MARKING CODE: CA6E

MAXIMUM RATINGS: (T _A =25 °C)	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	120	v
Average Forward Current	۱ _O	200	mA
Peak Forward Current, tp=1.0s	^I FM	300	mA
Power Dissipation	PD	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)

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SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
♦ I _R	V _R =80V			100	nA
♦ BV _R	Ι _R =100μΑ	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
с _Т	V _R =0, f=1.0MHz		1.5	4.0	pF
t _{rr}	$I_R=I_F=10$ mA, RL=100 Ω , Rec. to 1.0mA			4.0	ns

Enhanced specification

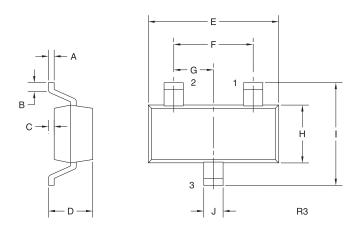
R3 (25-January 2010)





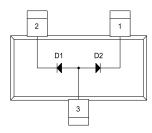
ENHANCED SPECIFICATION SURFACE MOUNT DUAL, SILICON SWITCHING DIODES

SOT-23 CASE - MECHANICAL OUTLINE



DIMENSIONS								
	INCHES		MILLIMETERS					
SYMBOL	MIN	MAX	MIN	MAX				
А	0.003	0.007	0.08	0.18				
В	0.006	-	0.15	-				
С	-	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					
Н	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)								

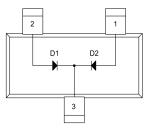
PIN CONFIGURATIONS



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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