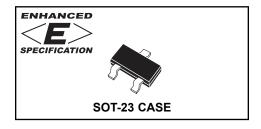
CMPD7000E

ENHANCED SPECIFICATION

SURFACE MOUNT
DUAL, SILICON SWITCHING DIODE
SERIES CONNECTION





DESCRIPTION:

The Central Semiconductor CMPD7000E is an Enhanced version of the CMPD7000 Dual, Series Configuration, Ultra-High Speed Switching Diode. This device is manufactured by the epitaxial planar process, in an epoxy molded surface mount SOT-23 package, designed for high speed switching applications.

MARKING CODE: C5CE

FEATURED ENHANCED SPECIFICATIONS:

- ♦ BV_R from 100V min to 120V min.
- ♦ V_F from 1.1V max to 1.0V max.

	MAXIMUM RATINGS $(T_{\Delta}=25^{\circ}\text{C})$						
	SYMBOL						
♦	Peak Repetitive Reverse Voltage	V_{RRM}	120	V			
	Average Forward Current	IO	200	mA			
	Peak Forward Current	I _{FM}	500	mA			
	Power Dissipation	P_{D}	350	mW			
	Operating and Storage						
	Junction Temperature	T_J, T_stg	-65 to +150	°C			
	Thermal Resistance	$\Theta_{\sf JA}$	357	°C/W			

ELECTRICAL CHARACTERISTICS PER DIODE: (T_A=25°C unless otherwise noted)

	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
♦	BV_R	I _R =100μA	120	150		V
	I_{R}	V _R =50V			300	nA
	I_{R}	V _R =50V, T _A =125°C			100	μΑ
	I_{R}	V _R =100V			500	nA
•	V_{F}	I _F =1.0mA	0.55	0.59	0.65	V
♦	V_{F}	I _F =10mA	0.67	0.72	0.77	V
♦	V_{F}	I _F =100mA	0.85	0.91	1.0	V
	C _T	V _R =0, f=1 MHz			1.5	pF
	t _{rr}	$I_R=I_F=10$ mA, $R_L=100\Omega$, Rec. to 1.0mA		2.0	4.0	ns

♦ Enhanced Specification

R2 (6-August 2003)

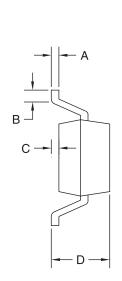


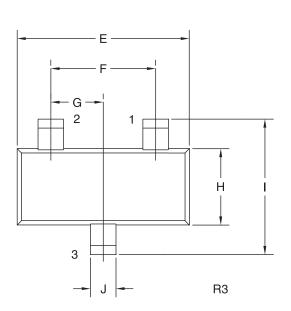
CMPD7000E

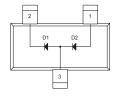
ENHANCED SPECIFICATION

SURFACE MOUNT **DUAL, SILICON SWITCHING DIODE SERIES CONNECTION**

SOT-23 CASE - MECHANICAL OUTLINE







LEAD CODE:

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

MARKING CODE: C5CE

DIMENSIONS								
	INCHES		MILLIMETERS					
SYMBOL	MIN	MAX	MIN	MAX				
Α	0.003	0.007	0.08	0.18				
В	0.006	-	0.15	-				
С	ı	0.005	-	0.13				
D	0.035	0.043	0.89	1.09				
Е	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				
	0.083	0.098	2.10	2.49				
J	0.014	0.020	0.35	0.50				

SOT-23 (REV: R3)