

The following configurations are available:

Operating and Storage Junction Temperature

Thermal Resistance

CMPD7005 CMPD7005A CMPD7005C CMPD7005S	SINGLE DUAL, COMMON ANODE DUAL, COMMON CATHODE DUAL, IN SERIES	MARKING CODE: C7005 MARKING CODE: C705A MARKING CODE: C705C MARKING CODE: C705S	
MAXIMUM RA	TINGS PER DIODE: (T _A =25°C)	SYMBOL	
Continuous Re	verse Voltage	V _R	500
Peak Repetitive	e Reverse Voltage	V _{RRM}	500
Continous Form	vard Current	١ _F	100
Peak Repetitive Forward Current		IFRM	300
Forward Surge Current, tp=1.0 µs		IFSM	4.0
Forward Surge Current, tp=1.0 s		I _{FSM}	1.0
Power Dissipation		PD	350

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Semiconductor Corp.

high voltage switching diodes.

The Central Semiconductor CMPD7005,

-65 to +150

357

CMPD7005A, CMPD7005C and CMPD7005S are silicon switching diodes with various diode configurations, manufactured by the epitaxial planar process and packaged in an epoxy molded SOT-23 surface mount case. These devices are designed for applications requiring

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DESCRIPTION:

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

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SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS	
I _R	V _R =400V		100	nA	
I _R	V _R =400V, T _A =150°C		100	μA	
вv _R	I _R =1.0μΑ	500		V	
V _F	I _F =10mA		1.0	V	
V _F	I _F =50mA		1.2	V	
V _F	I _F =100mA		1.4	V	
с _т	V _R =0V, f=1.0 MHz		5.0	pF	
t _{rr}	$I_R=I_F=10$ mA, R _L =100 Ω , Rec. to 1.0mA		500	ns	

TJ, Tstg

 Θ_{JA}

R1 (8-February 2005)

UNITS V MA MA A A

mW

°C

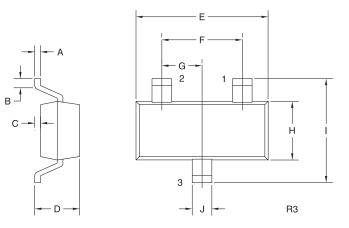
°C/W





SURFACE MOUNT VERY HIGH VOLTAGE SILICON SWITCHING DIODE

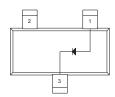
SOT-23 CASE - MECHANICAL OUTLINE



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	
	0.083	0.098	2.10	2.49	
J	0.014	0.020	0.35	0.50	
SOT-23 (REV: R3)					

2

MARKING CODE: SEE PREVIOUS PAGE



LEAD CODE: CMPD7005 1) Anode 2) No Connection 3) Cathode

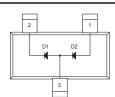
2	2			1	
	D1	1	D2		
V		3			

LEAD CODE: CMPD7005A 1) Cathode D2 2) Cathode D1 3) Anode D1, Anode D2

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		D1			D2			
			-1	-	-			
			3					
				\neg				
LEAD CODE:								
LEAD CODE.								

1

CMPD7005C 1) Anode D2 2) Anode D1 3) Cathode D1, Cathode D2



LEAD CODE: CMPD7005S 1) Anode D2 2) Cathode D1 3) Anode D1, Cathode D2

R1 (8-February 2005)