CMSD7000

SURFACE MOUNT DUAL, IN SERIES SILICON SWITCHING DIODES



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMSD7000 type is a ultra-high speed silicon switching diodes manufactured by the epitaxial planar process, in an epoxy molded super-mini surface mount package, connected in a series configuration, designed for high speed switching applications.

MARKING CODE: 5CC



MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	100	V
Average Forward Current	IO	200	mA
Peak Forward Current, tp=1.0s	I _{FM}	500	mA
Power Dissipation	P_{D}	275	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	455	°C/W

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

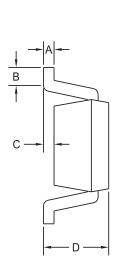
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_{R}	V _R =50V			300	nA
I_{R}	V _R =50V, T _A =125°C			100	μΑ
I_{R}	V _R =100V			500	nA
BV_R	I _R =100μA	100			V
V_{F}	I _F =1.0mA	0.55		0.70	V
V_{F}	I _F =10mA	0.67		0.82	V
V_{F}	I _F =100mA	0.75		1.10	V
C_T	$V_R=0$, f=1.0MHz		1.5	2.6	pF
t _{rr}	$I_R = I_F = 10$ mA, $I_{rr} = 1.0$ mA, $R_L = 100$ Ω		2.0	4.0	ns

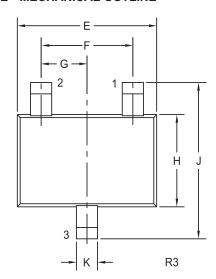
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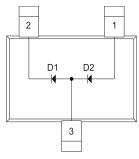


SOT-323 CASE - MECHANICAL OUTLINE





PIN CONFIGURATION



	CODE:	
LEAD	CODE:	

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

MARKING CODE: 5CC

DIMENSIONS					
	INCHES		MILLIMETERS		
SYMBOL	MIN	MAX	MIN	MAX	
Α	0.002	0.008	0.05	0.20	
В	0.004	-	0.10	-	
С	-	0.004	-	0.10	
D	0.031	0.043	0.80	1.10	
Е	0.071	0.087	1.80	2.20	
F	0.051		1.30		
G	0.026		0.65		
Н	0.045	0.053	1.15	1.35	
J	0.079	0.087	2.00	2.20	
K	0.008	0.016	0.20	0.40	

SOT-323 (REV: R3)