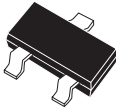


CMPD7000

DUAL SILICON SWITCHING DIODE SERIES CONNECTION



SOT-23 CASE

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPD7000 type is an ultra-high speed silicon switching diodes manufactured by the epitaxial planar process, in an epoxy molded surface mount package, connected in a series configuration, designed for high speed switching applications.

Marking Code is C5C.

MAXIMUM RATINGS (T_A=25°C)

	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	100	V
Average Forward Current	I _O	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	θ _{JA}	357	°C/W

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
BV _R	I _R =100μA	100			V
I _R	V _R =50V			300	nA
I _R	V _R =50V, T _A =125°C			100	μA
I _R	V _R =100V			500	nA
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 MHz			1.5	pF
t _{rr}	I _R =I _F =10mA, R _L =100Ω, Rec. to 1.0mA		2.0	4.0	ns

All dimensions in inches (mm).

