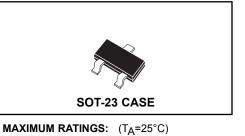
CMPD914

HIGH SPEED SWITCHING DIODE



Junction Temperature

Thermal Resistance



DESCRIPTION:

The Central Semiconductor CMPD914 is a ultrahigh speed silicon switching diode manufactured by the epitaxial planar process, in an epoxy molded surface mount package, designed for high speed switching applications.

-65 to +150

357

MARKING CODE: C5D

TATINGS: (1A 25 6)	SYMBOL		UNITS
Continuous Reverse Voltage	v_{R}	75	V
Peak Repetitive Reverse Voltage	V_{RRM}	100	V
Continuous Forward Current	I _F	250	mA
Peak Repetitive Forward Current	IFRM	250	mA
Forward Surge Current, tp=1.0 µs	I _{FSM}	4.0	Α
Forward Surge Current, tp=1.0 ms	I _{FSM}	2.0	Α
Forward Surge Current, tp=1.0 s	I _{FSM}	1.0	Α
Power Dissipation	P_{D}	350	mW
Operating and Storage			

T_J, T_{stg}

 Θ_{JA}

ELECTRICA SYMBOL	L CHARACTERISTICS: TEST CONDITIONS	(T _A =25°C unless otherwise noted)	MIN	MAX	UNITS
BV_R	I _R =100μA		100		V
I_{R}	V _R =20V			25	nA
I_{R}	$V_R = 75V$			5.0	μΑ
V_{F}	I _F =10mA			1.0	V
C_T	V_R =0V, f=1.0 MHz			4.0	pF
t _{rr}	$I_R = I_F = 10 \text{mA}, R_L = 100\Omega,$	Rec. to 1.0 mA		4.0	ns

°C

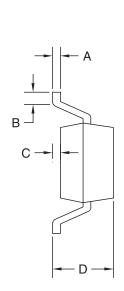
°C/W

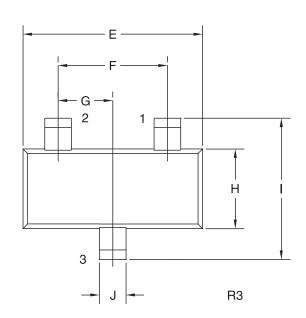


CMPD914

HIGH SPEED SWITCHING DIODE

SOT-23 CASE - MECHANICAL OUTLINE





LEAD CODE:

- 1) ANODE
- 2) NO CONNECTION
- 3) CATHODE

MARKING CODE: C5D

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

R4 (13-November 2002)