CMPD6001 CMPD6001A CMPD6001C **CMPD6001S**

SURFACE MOUNT ULTRA LOW LEAKAGE





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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPD6001 series types are silicon switching diodes manufactured by the epitaxial planar process, designed for switching applications requiring an extremely low leakage diode.

The following configurations are available:

SOT-23 CASE

CMPD6001 SINGLE

CMPD6001A DUAL, COMMON ANODE CMPD6001C DUAL, COMMON CATHODE MARKING CODE: ULC

CMPD6001S DUAL, IN SERIES

MARKING CODE: ULO MARKING CODE: ULA MARKING CODE: ULS

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Continuous Reverse Voltage	V_{R}	75	V
Peak Repetitive Reverse Voltage	V_{RRM}	100	V
Continuous Forward Current	Ι _F	250	mA
Peak Repetitive Forward Current	^I FRM	250	mA
Peak Forward Surge Current, tp=1.0µs	^I FSM	4.0	Α
Peak Forward Surge Current, tp=1.0s	^I FSM	1.0	Α
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 PER DIODE: (T_A=25°C unless otherwise noted)

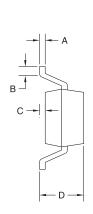
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
^I R	V _R =75V		500	pA
BV_R	I _R =100μA	100		V
V_{F}	I _F =1.0mA		0.85	V
V_{F}	I _F =10mA		0.95	V
V_{F}	I _F =100mA		1.1	V
C_T	$V_R=0$, $f=1.0MHz$		2.0	pF
t _{rr}	$I_R=I_F=10$ mA, $I_{rr}=1.0$ mA, $R_L=100$ Ω		3.0	μs

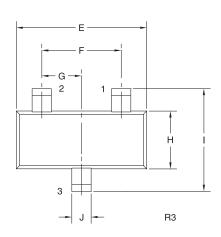
CMPD6001 CMPD6001A CMPD6001C **CMPD6001S**





SOT-23 CASE - MECHANICAL OUTLINE

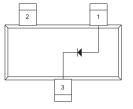


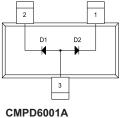


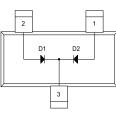
DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
Α	0.003	0.007	0.08	0.18			
В	0.006	-	0.15	-			
С	-	0.005	-	0.13			
D	0.035	0.043	0.89	1.09			
Е	0.110	0.120	2.80	3.05			
F	0.075		1.90				
G	0.037		0.95				
Н	0.047	0.055	1.19	1.40			
	0.083	0.098	2.10	2.49			
J	0.014	0.020	0.35	0.50			

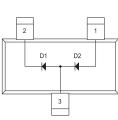
SOT-23 (REV: R3)

PIN CONFIGURATIONS









CMPD6001

LEAD CODE:

- 1) Anode
- 2) No Connection
- 3) Cathode

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

CMPD6001C

LEAD CODE:

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

CMPD6001S

LEAD CODE:

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

MARKING CODE: ULO MARKING CODE: ULA MARKING CODE: ULC MARKING CODE: ULS