CMPD6001 CMPD6001A CMPD6001C CMPD6001S

SURFACE MOUNT LOW LEAKAGE SILICON SWITCHING DIODE





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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:

CMPD6001 SINGLE MARKING CODE: ULO CMPD6001A DUAL, COMMON ANODE CMPD6001C DUAL, COMMON CATHODE CMPD6001S DUAL, IN SERIES 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	I _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	ΘιΔ	357	°C/W

ELECTRICAL CHARACTERISTICS PER DIODE: $(T_A = 25^{\circ}C \text{ unless otherwise noted})$

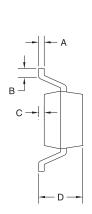
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_{R}	V _R =75V		500	pA
BV_R	I _R =100μA	100		V
V_{F}	I _F =1.0mA		0.85	V
V_{F}	I _F =10mA		0.95	V
V_{F}	I _F =100mA		1.1	V
C_T	V _R =0, f=1.0MHz		2.0	pF
t _{rr}	$I_R = I_F = 10$ mA, $R_L = 100\Omega$, Rec. to 1.0mA		3.0	μs

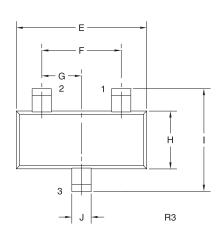
CMPD6001 CMPD6001A CMPD6001C **CMPD6001S**





SOT-23 CASE - MECHANICAL OUTLINE

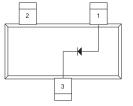


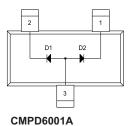


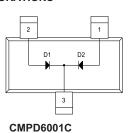
DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
Α	0.003	0.007	0.08	0.18			
В	0.006	-	0.15	-			
С	-	0.005	-	0.13			
D	0.035	0.043	0.89	1.09			
Е	0.110	0.120	2.80	3.05			
F	0.075		1.90				
G	0.037		0.95				
Н	0.047	0.055	1.19	1.40			
1	0.083	0.098	2.10	2.49			
J	0.014	0.020	0.35	0.50			

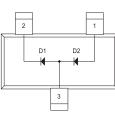
SOT-23 (REV: R3)

PIN CONFIGURATIONS









CMPD6001

LEAD CODE:

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

LEAD CODE:

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

3) Cathode D1, D2

LEAD CODE:

1) Anode D2

2) Anode D1

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