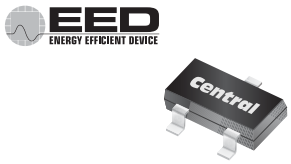
CMPD6001
CMPD6001A
CMPD6001C
CMPD6001S

SURFACE MOUNT
LOW LEAKAGE
SILICON SWITCHING DIODE



SOT-23 CASE

www.centralsemi.com

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	**MARKING CODE: ULA**
CMPD6001C	DUAL, COMMON CATHODE	**MARKING CODE: ULC**
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	A
Peak Forward Surge Current, tp=1.0s	I_{FSM}	1.0	A
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

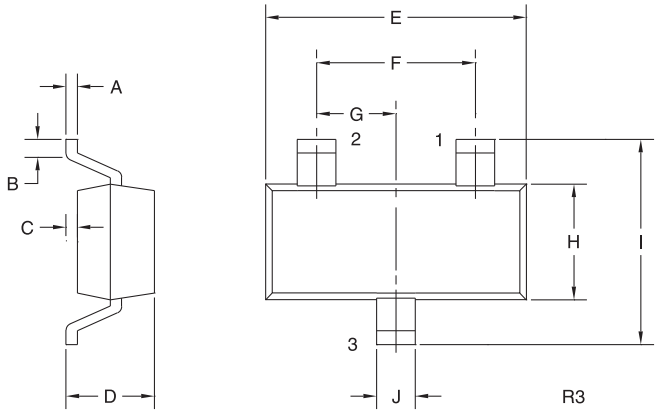
ELECTRICAL CHARACTERISTICS PER DIODE: (T_A=25°C unless otherwise noted)

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=10mA, R_L=100Ω, Rec. to 1.0mA		3.0	μs

CMPD6001
CMPD6001A
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SURFACE MOUNT
LOW LEAKAGE
SILICON SWITCHING DIODE

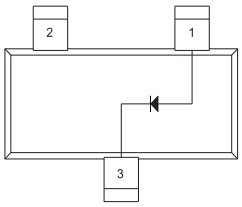
SOT-23 CASE - MECHANICAL OUTLINE



DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	0.003	0.007	0.08	0.18
B	0.006	-	0.15	-
C	-	0.005	-	0.13
D	0.035	0.043	0.89	1.09
E	0.110	0.120	2.80	3.05
F	0.075		1.90	
G	0.037		0.95	
H	0.047	0.055	1.19	1.40
I	0.083	0.098	2.10	2.49
J	0.014	0.020	0.35	0.50

SOT-23 (REV: R3)

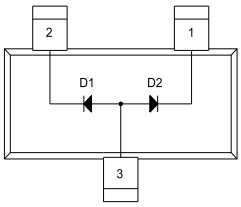
PIN CONFIGURATIONS



CMPD6001

LEAD CODE:
1) Anode
2) No Connection
3) Cathode

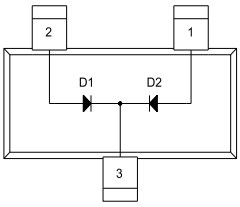
MARKING CODE: ULO



CMPD6001A

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

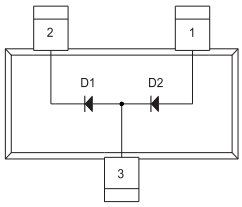
MARKING CODE: ULA



CMPD6001C

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

MARKING CODE: ULC



CMPD6001S

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

MARKING CODE: ULS