



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 configuration	ons 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: $(T_A=25^{\circ}C)$

	SYMBOL		UNITS
Continuous Reverse Voltage	V _R	75	V
Peak Repetitive Reverse Voltage	V _{RRM}	100	V
Continuous Forward Current	I _E	250	mA
Peak Repetitive Forward Current	I _{FRM}	250	mA
Forward Surge Current, tp=1 µsec.	IFSM	4000	mA
Forward Surge Current, tp=1 sec.	IFSM	1000	mA
Power Dissipation	PD	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	pА
BVR	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
с _т	V _R =0, f=1.0 MHz		2.0	pF
t _{rr}	I _R =I _F =10mA, R _L =100Ω, Rec. to 1.0mA		3.0	μs

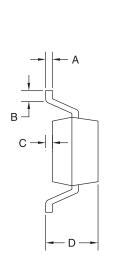
R3 (6-August 2003)

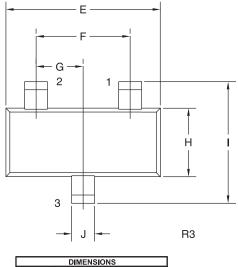


CMPD6001 CMPD6001A CMPD6001C CMPD6001S

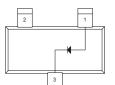
SURFACE MOUNT LOW LEAKAGE SILICON SWITCHING DIODE

SOT-23 CASE - MECHANICAL OUTLINE





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



LEAD CODE: CMPD6001 1) Anode

2) No Connection 3) Cathode

MARKING CODE: ULO



LEAD CODE: CMPD6001A 1) Cathode D2 2) Cathode D1 3) Anode D1, Anode D2

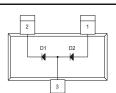
MARKING CODE: ULA



LEAD CODE: CMPD6001C 1) Anode D2 2) Anode D1 3) Cathode D1, Cathode D2

MARKING

CODE: ULC



LEAD CODE: CMPD6001S

1) Anode D2

2) Cathode D1 3) Anode D1, Cathode D2

MARKING CODE: ULS

R3 (6-August 2003)