CMPD6001 CMPD6001A CMPD6001C CMPD6001S

SURFACE MOUNT LOW LEAKAGE SWITCHING DIODE





DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPD6001 series types are silicon switching diodes manufactured by the epitaxial planar process, designed for switching applications requiring a 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: $(T_A = 25^{\circ}C)$

	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
Forward Surge Current, tp=1 µsec.	I _{FSM}	4000	mA
Forward Surge Current, tp=1 sec.	I _{FSM}	1000	mA
Power Dissipation	P _D	350	mW
Operating and Storage	_		
Junction Temperature	T_J, T_stg	-65 to +150	°C
Thermal Resistance	Θ_{JA}^{JA}	357	°C/W

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

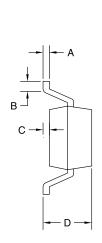
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_{R}	V _R =75V		500	pА
V _{BR}	I _R =100μA	100		V
VF	I _F =1.0mA		0.85	V
٧F	I _F =10mA		0.95	V
V _F	I _F =100mA		1.1	V
C _T	\dot{V}_{R} =0, f=1.0 MHz		2.0	pF
t _{rr}	$I_R=I_F=10$ mA, $R_L=100\Omega$, Rec. to 1.0mA		3.0	μs

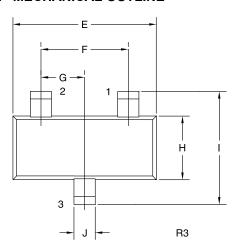


CMPD6001 CMPD6001A CMPD6001C CMPD6001S

SURFACE MOUNT LOW LEAKAGE SWITCHING DIODE

SOT-23 CASE - MECHANICAL OUTLINE

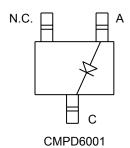


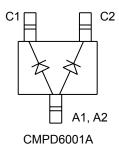


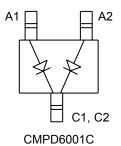
DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
Α	0.003	0.007	0.08	0.18			
В	0.006	-	0.15	-			
С	ı	0.005		0.13			
D	0.035	0.043	0.89	1.09			
E	0.110	0.120	2.80	3.05			
F	0.075		1.90				
G	0.037		0.95				
Н	0.047	0.055	1.19	1.40			
I	0.083	0.098	2.10	2.49			
J	0.014	0.020	0.35	0.50			

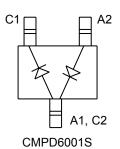
SOT-23 (REV: R3)

Pin Configuration









R1 (01-Mar 2001)