CMPD6001 CMPD6001A CMPD6001C CMPD6001S

SURFACE MOUNT SILICON ULTRA LOW LEAKAGE SWITCHING DIODES





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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPD6001 series devices 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 MARKING CODE: ULO
CMPD6001A DUAL, COMMON ANODE
CMPD6001C DUAL, COMMON CATHODE
CMPD6001S DUAL, IN SERIES MARKING CODE: ULC
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	IFRM	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 PI	ER 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
VF	I _F =10mA		0.95	V
V_{F}	I _F =100mA		1.1	V
CJ	$V_R=0$, $f=1.0MHz$		2.0	pF
t _{rr}	I _R =I _F =10mA, I _{rr} =1.0mA	, R _L =100Ω	3.0	μs

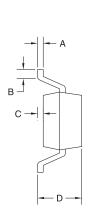
R6 (16-February 2017)

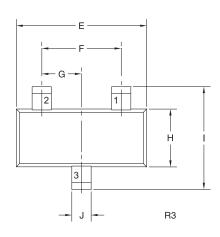
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SOT-23 CASE - MECHANICAL OUTLINE

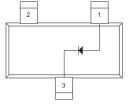


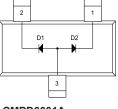


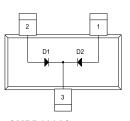
DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
Α	0.003	0.007	0.08	0.18		
В	0.006	-	0.15	-		
С	-	0.005	-	0.13		
D	0.035	0.043	0.89	1.09		
Е	0.110	0.120	2.80	3.05		
F	0.075		1.90			
G	0.037		0.95			
Н	0.047	0.055	1.19	1.40		
	0.083	0.098	2.10	2.49		
J	0.014	0.020	0.35	0.50		

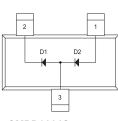
SOT-23 (REV: R3)

PIN CONFIGURATIONS









CMPD6001

LEAD CODE:

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

Cathode 3

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

CMPD6001S

LEAD CODE:

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

MARKING CODE: ULC MARKING CODE: ULS

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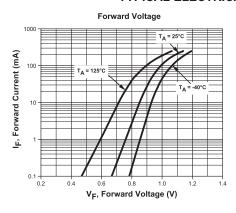
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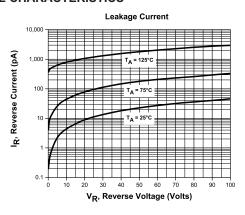
CMPD6001 CMPD6001A CMPD6001C CMPD6001S

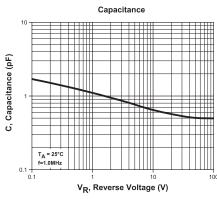
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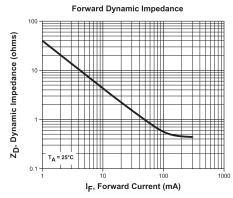


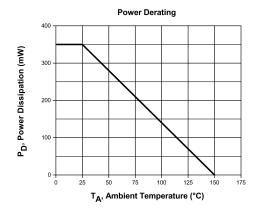
TYPICAL ELECTRICAL CHARACTERISTICS











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OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- · Inventory bonding
- · Consolidated shipping options

- · Custom bar coding for shipments
- · Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free guick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- · Custom electrical curves
- · Environmental regulation compliance
- Customer specific screening
- · Up-screening capabilities

- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

- 1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
- 2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

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