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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:

	J		
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
	FINGS: (T _A =25°C)	SYMBOL	
	11100. (1A-20 0)	STWIDOL	
Continuous Rev	verse Voltage	Vp	75
		٧R	15

MAXIMUM RATINGS: (T _A =25°C) Continuous Reverse Voltage	SYMBOL V _R	75	UNITS V
Peak Repetitive Reverse Voltage	V _{RRM}	100	V
Continuous Forward Current	١ _F	250	mA
Peak Repetitive Forward Current	I _{FRM}	250	mA
Peak Forward Surge Current, tp=1.0µs	IFSM	4.0	А
Peak Forward Surge Current, tp=1.0s	IFSM	1.0	А
Power Dissipation	PD	350	mW
Operating and Storage Junction Temperature	TJ, Tstg	-65 to +150	°C
Thermal Resistance	Θ_{JA}	357	°C/W

ELECTRICAL CHARACTERISTICS PER DIODE: (TA=25°C unless otherwise noted)				
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
IR	V _R =75V		500	pА
BVR	Ι _R =100μΑ	100		V
VF	I _F =1.0mA		0.85	V
VF	I _F =10mA		0.95	V
VF	I _F =100mA		1.1	V
СJ	V _R =0, f=1.0MHz		2.0	pF
t _{rr}	$I_R=I_F=10mA$, $I_{rr}=1.0mA$, $R_L=100\Omega$		3.0	μs

R6 (16-February 2017)

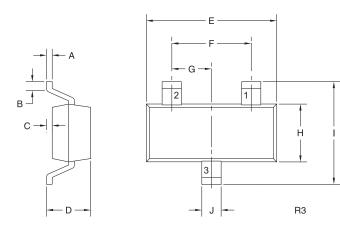


SURFACE MOUNT SILICON ULTRA LOW LEAKAGE SWITCHING DIODES

CMPD6001S

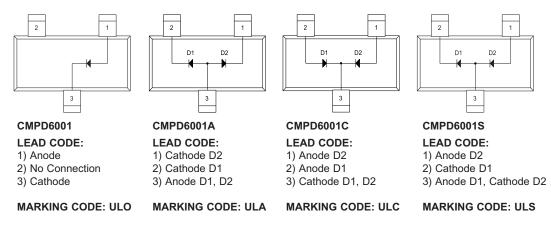
CMPD6001 CMPD6001A CMPD6001C

SOT-23 CASE - MECHANICAL OUTLINE



DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
А	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

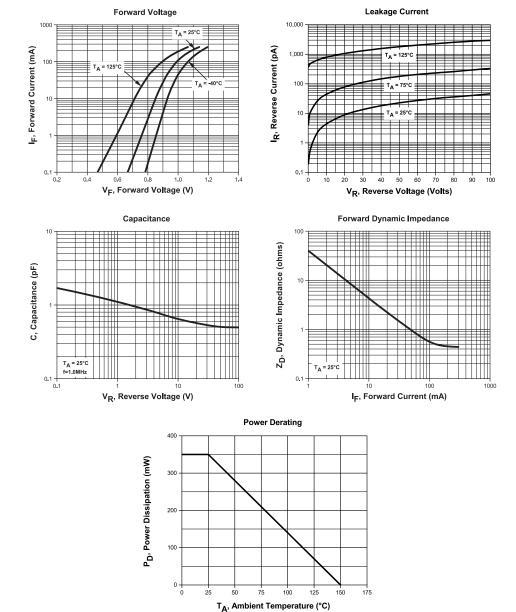


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R6 (16-February 2017)



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TYPICAL ELECTRICAL CHARACTERISTICS

CMPD6001 CMPD6001A CMPD6001C CMPD6001S

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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

DESIGNER SUPPORT/SERVICES

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

- Free quick 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

· Custom product packing

- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits

Custom bar coding for shipments

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).
- 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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