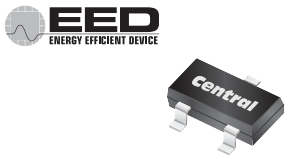
CMPD3003
CMPD3003A
CMPD3003C
CMPD3003S

SURFACE MOUNT SILICON
LOW LEAKAGE
SWITCHING DIODES



SOT-23 CASE

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPD3003 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:

CMPD3003	SINGLE	**MARKING CODE: LLO**
CMPD3003A	DUAL, COMMON ANODE	**MARKING CODE: LLA**
CMPD3003C	DUAL, COMMON CATHODE	**MARKING CODE: LLC**
CMPD3003S	DUAL, IN SERIES	**MARKING CODE: LLS**

MAXIMUM RATINGS: (T_A=25°C)	**SYMBOL**		**UNITS**
Continuous Reverse Voltage	V_R	180	V
Average Forward Current	I_O	200	mA
Continuous Forward Current	I_F	600	mA
Peak Repetitive Forward Current	I_{FRM}	700	mA
Peak Forward Surge Current, tp=1.0μs	I_{FSM}	2.0	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)

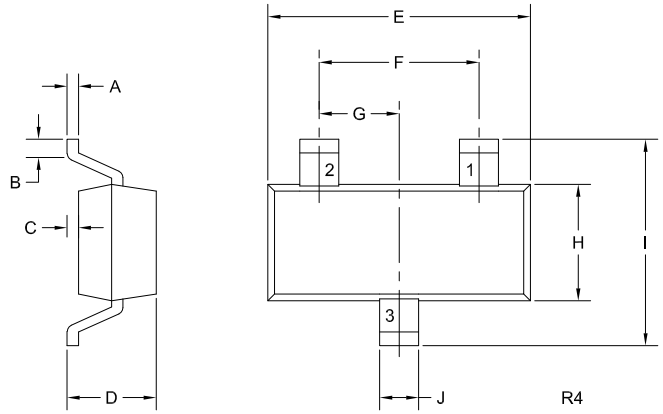
SYMBOL	**TEST CONDITIONS**	**MIN**	**MAX**	**UNITS**
I_R	V_R=125V		1.0	nA
I_R	V_R=125V, T_A=150°C		3.0	μA
I_R	V_R=180V		10	nA
I_R	V_R=180V, T_A=150°C		5.0	μA
BV_R	I_R=5.0μA	200		V
V_F	I_F=1.0mA	0.62	0.72	V
V_F	I_F=10mA	0.72	0.83	V
V_F	I_F=50mA	0.80	0.89	V
V_F	I_F=100mA	0.83	0.93	V
V_F	I_F=200mA	0.87	1.10	V
V_F	I_F=300mA	0.90	1.15	V
C_J	V_R=0, f=1.0MHz		4.0	pF

R5 (14-September 2020)

CMPD3003
CMPD3003A
CMPD3003C
CMPD3003S

SURFACE MOUNT SILICON
LOW LEAKAGE
SWITCHING DIODES

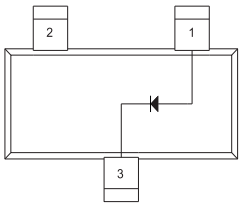
SOT-23 CASE - MECHANICAL OUTLINE



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	0.044	0.89	1.12
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	0.104	2.10	2.64
J	0.014	0.020	0.35	0.50

SOT-23 (REV: R4)

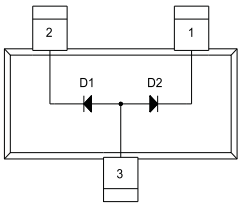
PIN CONFIGURATIONS



CMPD3003

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

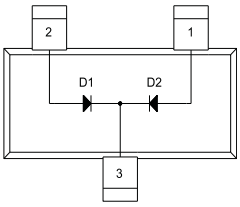
MARKING CODE: LLO



CMPD3003A

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

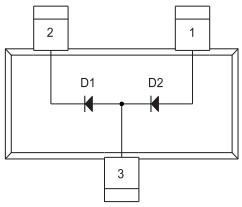
MARKING CODE: LLA



CMPD3003C

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

MARKING CODE: LLC



CMPD3003S

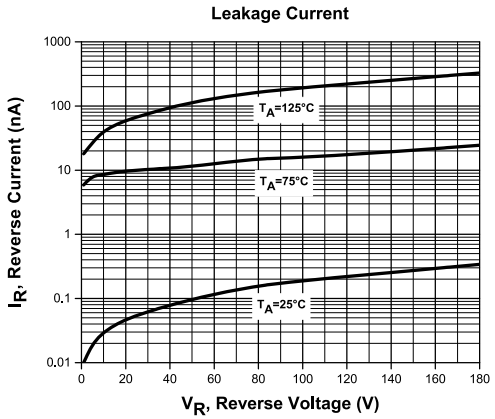
LEAD CODE:
1) Anode D2
2) Cathode D1
3) Anode D1, Cathode D2

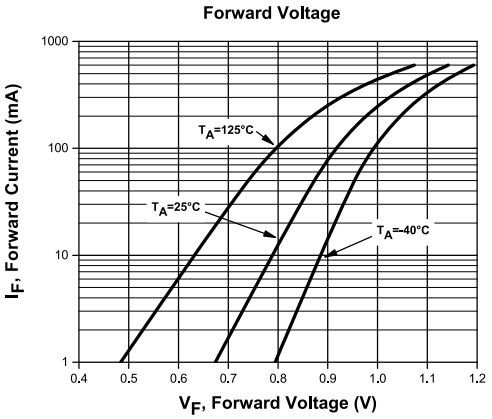
MARKING CODE: LLS

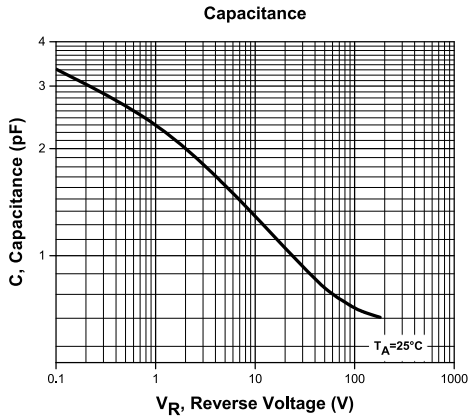
CMPD3003
CMPD3003A
CMPD3003C
CMPD3003S

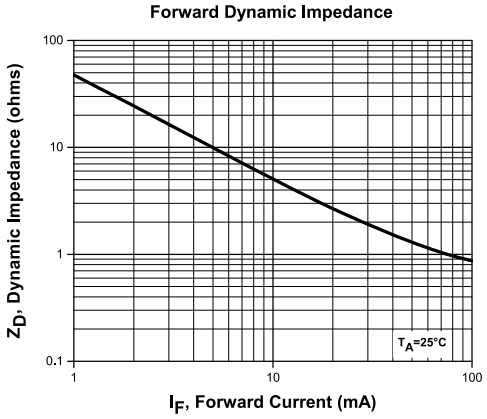
SURFACE MOUNT SILICON
LOW LEAKAGE
SWITCHING DIODES

TYPICAL ELECTRICAL CHARACTERISTICS







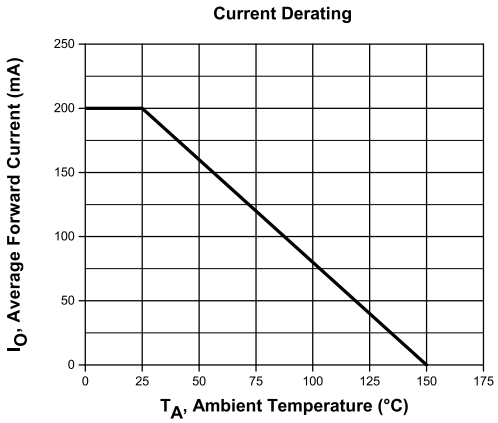


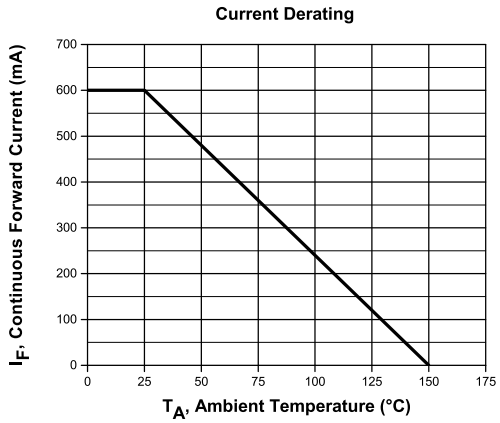
R5 (14-September 2020)

CMPD3003
CMPD3003A
CMPD3003C
CMPD3003S

SURFACE MOUNT SILICON
LOW LEAKAGE
SWITCHING DIODES

TYPICAL ELECTRICAL CHARACTERISTICS





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 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
- 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

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp.
145 Adams Avenue
Hauppauge, NY 11788 USA
Main Tel: (631) 435-1110
Main Fax: (631) 435-1824
Support Team Fax: (631) 435-3388
www.centralsemi.com

Worldwide Field Representatives:
www.centralsemi.com/wwreps

Worldwide Distributors:
www.centralsemi.com/wwdistributors

For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centralsemi.com/terms