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UNITS V mA mA A A A mW °C

°C/W

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPD3003 series types are silicon switching diodes manufactured by the epitaxial planar process, designed for switching applications requiring an extremely low leakage diode.

357

The following configurations are available:

Thermal Resistance

	CMPD3003C DUA		MARKING C MARKING C MARKING C MARKING C	ODE: LLA ODE: LLC
MAXIMUM RATINGS: (T _A =25°C)		SYMBOL		
	Continuous Reverse Voltage		V _R	180
Average Forward Current		۱ _O	200	
Continuous Forward Current		١ _F	600	
Peak Repetitive Forward Current		IFRM	700	
Peak Forward Surge Current, tp=1.0µs		IFSM	2.0	
Peak Forward Surge Current, tp=1.0s		IFSM	1.0	
Power Dissipation		Р _D	350	
Operating and Storage Junction Temperature		TJ, T _{stg}	-65 to +150	

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	μΑ
I _R	V _R =180V		10	nA
I _R	V _R =180V, T _A =150°C		5.0	μΑ
BVR	Ι _R =5.0μΑ	200		V
VF	I _F =1.0mA	0.62	0.72	V
VF	I _F =10mA	0.72	0.83	V
VF	I _F =50mA	0.80	0.89	V
VF	I _F =100mA	0.83	0.93	V
VF	I _F =200mA	0.87	1.10	V
VF	I _F =300mA	0.90	1.15	V
С _Т	V _R =0, f=1.0MHz		4.0	pF

 Θ_{JA}

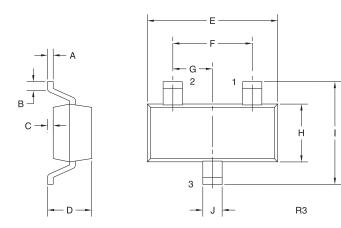
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CMPD3003S SURFACE MOUNT LOW LEAKAGE SILICON SWITCHING DIODE

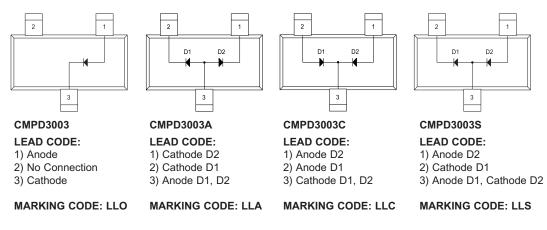
CMPD3003 CMPD3003A CMPD3003C

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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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 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

· Custom product packing

Custom bar coding for shipments

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

REQUESTING PRODUCT PLATING

- If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when 1. 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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