CLL2003

SURFACE MOUNT HIGH VOLTAGE SILICON **SWITCHING DIODE**



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CLL2003 type is a silicon switching diode manufactured by the epitaxial planar process, designed for applications requiring high voltage capability.

MARKING: CATHODE BAND



MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Continuous Reverse Voltage	v_R	250	V
Peak Repetitive Reverse Voltage	V_{RRM}	250	V
Average Forward Current	IO	200	mA
Continuous Forward Current	I _F	250	mA
Peak Repetitive Forward Current	I _{FRM}	625	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}	500	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +200	°C
Thermal Resistance	$\Theta_{\sf JA}$	350	°C/W
ELECTRICAL CHARACTERISTICS: (T _A =25°C ur	nless otherwise noted)		

SYMBOL TEST CONDITIONS MIN

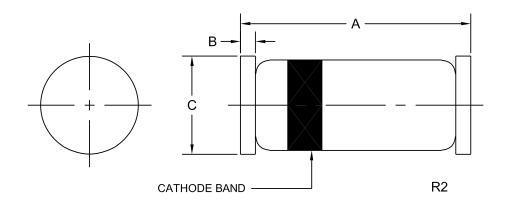
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_{R}	V _R =200V		100	nA
I_{R}	V _R =200V, T _A =150°C		100	μΑ
BV_R	I _R =100μA	250		V
V_{F}	I _F =100mA		1.00	V
V_{F}	I _F =200mA		1.25	V
C_T	V_R =0, f=1.0 MHz		5.0	pF
t _{rr}	$I_F = I_R = 30$ mA, Rec. to 3.0mA,			
	$R_L=100\Omega$		50	ns

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SOD-80 CASE - MECHANICAL OUTLINE



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DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
Α	0.130	0.146	3.30	3.71			
В	0.014		0.35				
C (DIA)	0.049	0.067	1.25	1.70			

SOD-80 (REV:R2)

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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