

CLL5530B
SURFACE MOUNT
SILICON ZENER DIODE
10 VOLTS
400mW, 5% TOLERANCE



SOD-80 CASE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CLL5530B is a Silicon Avalanche Zener Diode designed for applications requiring low noise, low leakage, low current, and low impedance.

MARKING: CATHODE BAND

MAXIMUM RATINGS: ($T_A=50^{\circ}\text{C}$)

Power Dissipation

Operating and Storage Junction Temperature

SYMBOL

P_D

T_J, T_{stg}

400

-65 to +200

UNITS

mW

$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS: ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

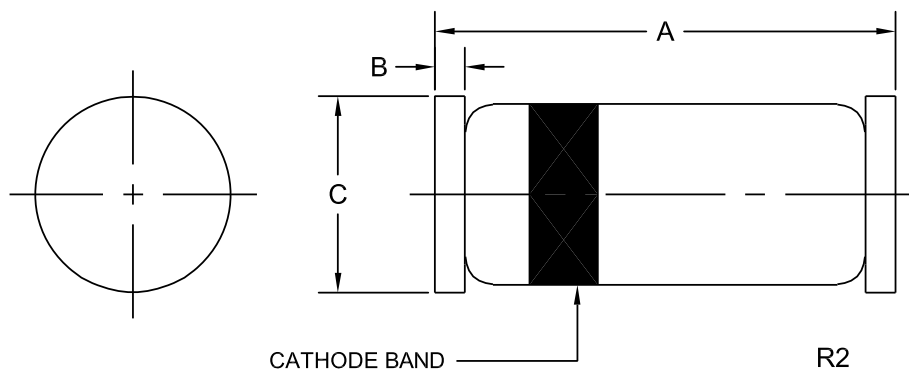
Zener Voltage			Test Current	Maximum Zener Impedance	Maximum Reverse Leakage Current		Maximum Regulation Factor		Maximum Regulator Current
$V_Z @ I_{ZT}$			I_{ZT}	$Z_{ZT} @ I_{ZT}$	I_R	@ V_R	ΔV_Z	@ I_{ZL}	I_{ZM}
MIN V	NOM V	MAX V	mA	Ω	μA	V	V	mA	mA
9.5	10	10.5	1.0	60	0.05	8.0	0.10	0.01	38

$\Delta V_Z = V_Z @ I_{ZT}$ minus $V_Z @ I_{ZL}$

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SOD-80 CASE - MECHANICAL OUTLINE



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

SOD-80 (REV:R2)

R1 (8-January 2010)

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

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