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# Zener 1N5231C

### Absolute Maximum Ratings\* T<sub>A</sub> = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
P <sub>D</sub>	Power Dissipation	500	mW
	Derate above 75°C	4.0	mW/°C
$T_{STG}$	Storage Temperature Range	-65 to +200	°C
$T_J$	Maximum Junction Operating Temperature	+ 200	°C
	Lead Temperature (1/16" from case for 10 seconds)	+ 230	°C
	Surge Power**	10	W

<sup>\*</sup>These ratings are limiting values above which the serviceability of the diode may be impaired.

#### NOTES:

- 1) These ratings are based on a maximum junction temperature of 200 degrees C.
  2) These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.

#### Tolerance = 2%



## **Electrical Characteristics** $T_A = 25^{\circ}\text{C unless otherwise noted}$

Symbol	Parameter	Test Conditions	Min.	Max.	Units
$V_Z$	Zener Voltage	$I_Z = 20 \text{mA}$	5.0	5.2	V
Z <sub>Z</sub>	Zener Impedance	$I_Z = 20mA$		17	Ω
Z <sub>zK</sub>	Zener Knee Impedance	$I_{ZK} = 0.25 \text{mA}$		1.6K	Ω
I <sub>R</sub>	Reverse Current	V <sub>R</sub> = 2.0V		5.0	μΑ
V <sub>F</sub>	Forward Voltage	I <sub>F</sub> = 0.2A		1.1	V

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<sup>\*\*</sup>Non-recurrent square wave PW= 8.3 ms, TA= 50 degrees C.

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SuperFET™

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Datasheet Identification	Product Status	Definition
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