

Zener 1N5231C

Absolute Maximum Ratings* T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
P_{D}	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

^{*}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 _z	Zener Impedance	$I_Z = 20mA$		17	Ω
Z _{ZK}	Zener Knee Impedance	$I_{ZK} = 0.25 \text{mA}$		1.6K	Ω
I _R	Reverse Current	V _R = 2.0V		5.0	μΑ
V_{F}	Forward Voltage	I _F = 0.2A		1.1	V

^{**}Non-recurrent square wave PW= 8.3 ms, TA= 50 degrees C.

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PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition			
Advance Information	Formative or In Design	This datasheet contains the design specifications for product development. Specifications may change in any manner without notice.			
Preliminary	First Production	This datasheet contains preliminary data, and supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.			
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1N5231C

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SEMICONDUCTOR

5.2V, 0.5W Zener Diode

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Contents

- Features
- •Product status/pricing/packaging
- Order Samples
- Qualification Support

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back to top

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Product status/pricing/packaging

BUY

Product	Product status	Pb-free Status	Pricing*	Package type	Leads	Packing method	Package Marking Convention**	
1N5231C	Full Production	Full Production	\$0.0218	DO-35	2		<u>Line 1:</u> \$Y (Fairchild logo) <u>Line 2:</u> 1N5 <u>Line 3:</u> 231 <u>Line 4:</u> C	
1N5231CTR	Full Production	Full Production	\$0.0218	DO-35	2		<u>Line 1:</u> \$Y (Fairchild logo) <u>Line 2:</u> 1N5 <u>Line 3:</u> 231 <u>Line 4:</u> C	

^{*} Fairchild 1,000 piece Budgetary Pricing

Indicates product with Pb-free second-level interconnect. For more information click here.

Package marking information for product 1N5231C is available. Click here for more information.

^{**} A sample button will appear if the part is available through Fairchild's on-line samples program. If there is no sample button, please contact a Fairchild distributor to obtain samples

back to top

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Product	bracket
1N5231C	
1N5231CTR	

back to top

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