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FAIRCHILD SEMICONDUCTOR®

Zener
1N5231C

Absolute Maximum Ratings*

T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
P_D	Power Dissipation Derate above 75°C	500 4.0	mW 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.

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

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%

DO-35
COLOR BAND DENOTES CATHODE

Electrical Characteristics

T_A = 25°C unless otherwise noted

Symbol	Parameter	Test Conditions	Min.	Max.	Units
V_Z	Zener Voltage	I_Z = 20mA	5.0	5.2	V
Z_Z	Zener Impedance	I_Z = 20mA		17	Ω
Z_{ZK}	Zener Knee Impedance	I_{ZK} = 0.25mA		1.6K	Ω
I_R	Reverse Current	V_R = 2.0V		5.0	µA
V_F	Forward Voltage	I_F = 0.2A		1.1	V

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No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
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