chanhvinh.com

FAIRCHILD SEMICONDUCTOR®

Zeners
1N5234C

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: C = 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	6.08	6.32	V
Z_Z	Zener Impedance	I_Z = 20mA		7.0	Ω
Z_{ZK}	Zener Knee Impedance	I_{ZK} = 0.25mA		1.0k	Ω
I_R	Reverse Current	V_R = 4.0V		5.0	µA
V_F	Forward Voltage	I_F = 0.2A		1.1	V

©2002 Fairchild Semiconductor Corporation

chanhvinh.com

TRADEMARKS

The following are registered and unregistered trademarks Fairchild Semiconductor owns or is authorized to use and is not intended to be an exhaustive list of all such trademarks.

ACEx™	FASTr™	OPTOLOGIC®	SMART START™	VCX™
Bottomless™	FRFET™	OPTOPLANAR™	SPM™	
CoolFET™	GlobalOptoisolator™	PACMAN™	Stealth™	
CROSSVOLT™	GTO™	POP™	SuperSOT™-3	
DOME™	HiSeC™	Power247™	SuperSOT™-6	
EcoSPARK™	I^2C™	PowerTrench®	SuperSOT™-8	
E^2CMOS™	ISOPLANAR™	QFET™	SyncFET™	
EnSigna™	LittleFET™	QS™	TinyLogic™	
FACT™	MicroFET™	QT Optoelectronics™	TruTranslation™	
FACT Quiet Series™	MicroPak™	Quiet Series™	UHC™	
FAST®	MICROWIRE™	SILENT SWITCHER®	UltraFET®	

DISCLAIMER

FAIRCHILD SEMICONDUCTOR RESERVES THE RIGHT TO MAKE CHANGES WITHOUT FURTHER NOTICE TO ANY PRODUCTS HEREIN TO IMPROVE RELIABILITY, FUNCTION OR DESIGN. FAIRCHILD DOES NOT ASSUME ANY LIABILITY ARISING OUT OF THE APPLICATION OR USE OF ANY PRODUCT OR CIRCUIT DESCRIBED HEREIN; NEITHER DOES IT CONVEY ANY LICENSE UNDER ITS PATENT RIGHTS, NOR THE RIGHTS OF OTHERS.

LIFE SUPPORT POLICY

FAIRCHILD'S PRODUCTS ARE NOT AUTHORIZED FOR USE AS CRITICAL COMPONENTS IN LIFE SUPPORT DEVICES OR SYSTEMS WITHOUT THE EXPRESS WRITTEN APPROVAL OF FAIRCHILD SEMICONDUCTOR CORPORATION.

As used herein:

1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) support or sustain life, or (c) whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in significant injury to the user.

2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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.
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.
Obsolete	Not In Production	This datasheet contains specifications on a product that has been discontinued by Fairchild semiconductor. The datasheet is printed for reference information only.