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February 2011

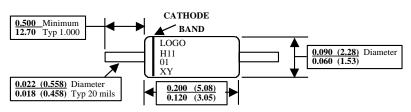
FJH1101 Ultra Low Leakage Diode

General Description

An Ultra Low Leakage Diode in the DO-35 package.

The forward voltage is typically greater than 0.5 volts at 1.0 micro-ampere.

This product is light sensitive, any damage to the body coating will affect the reverse leakage when exposed to light.



10 uA 003 III v
100 uA 685 mV
1.0 mA 780 mV
10 mA 895 mV
50 mA 995 mV
100 mA 1.07 V

Typical Forward Voltages

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

Symbol	Parameter	Value	Units
W _{IV}	Working Inverse Voltage	15	V
I _F	DC Forward Current (I _F)	150	mA
P _D	Total Power Dissipation at T _A = 25°C Linear Derating Factor from T _A = 25°C	250 1.67	mW mW/°C
$R_{\theta JA}$	Thermal Resistance Junction-to-Ambient	300	°C/W
T _J	Operating Junction Temperature	175	°C
T _{STG}	Storage Temperature	-55 to +200	°C

^{*} These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

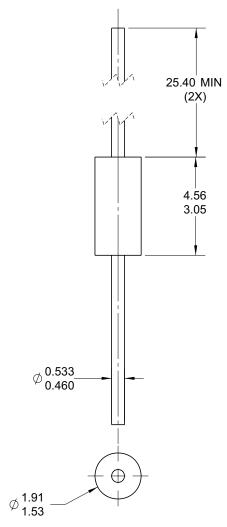
Electrical Characteristics $T_A = 25$ °C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
B _V	Breakdown Voltage	$I_R = 5.0 \mu A$	20			V
I _R	Reverse Leakage	V _R = 5.0V V _R = 15V			5.0 15	pA pA
V _F	Forward Voltage	I _F = 50mA			1.1	V
C _T	Diode Capacitance	$V_R = 0V$, $f = 1.0MHz$			2.0	pF

^{*} XY = 6 weeks marking date code, X = last digit of the calendar year (Alpha), Y = 6 weeks numeric code.

Physical Dimension

DO-35



NOTES: UNLESS OTHERWISE SPECIFIED

- A) PACKAGE STANDARD REFERENCE:
 JEDEC DO-204, VARIATION AH.
 B) HERMETICALLY SEALED GLASS PACKAGE.
 C) PACKAGE WEIGHT IS 0.137 GRAM.
 D) ALL DIMENSIONS ARE IN MILLIMETERS.
 E) DRAWING FILE NAME: DO35AREV02

Dimensions in Millimeters





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Definition of Term

Definition of Terms						
Datasheet Identification	Product Status	Definition				
Advance Information	Formative / In Design	Datasheet contains the design specifications for product development. Specifications may change in any manner without notice.				
Preliminary	First Production	Datasheet contains preliminary data; supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve design.				
No Identification Needed	Full Production	Datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve the design.				
Obsolete	Not In Production	Datasheet contains specifications on a product that is discontinued by Fairchild Semiconductor. The datasheet is for reference information only.				

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