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# FJH1100 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.



## Absolute Maximum Ratings \* T<sub>a</sub>

s *	$T_a = 25^{\circ}C$ unless otherwise noted	

Symbol	Parameter	Value	Units
W <sub>iv</sub>	Working Inverse Voltage	15	V
۱ <sub>F</sub>	DC Forward Current (I <sub>F</sub> )	150	mA
PD	Total Power Dissipation at $T_A = 25^{\circ}C$	250	mW
	Linear Derating Factor from $T_A = 25^{\circ}C$	1.67	mW/°C
$R_{\thetaJA}$	Thermal Resistance Junction-to-Ambient	300	°C/W
T <sub>STG</sub>	Storage Temperature	-55 to +200	°C
Τ <sub>J</sub>	Operating Junction Temperature	175	°C

\* These ratings are limiting values above which the serviceability of any semiconductor device may by impaired.

### Electrical Characteristics T<sub>a</sub> = 25°C unless otherwise noted

Symbol	Parameter	Test Conditions	Min	Тур.	Max.	Units
B <sub>V</sub>	Breakdown Voltage	I <sub>R</sub> = 5.0μA	30			V
I <sub>R</sub>	Reverse Leakage	V <sub>R</sub> = 5.0V V <sub>R</sub> = 15V			3.0 10	рА pA
V <sub>F</sub>	Forward Voltage	$I_{F} = 1.0\mu A$ $I_{F} = 10\mu A$ $I_{F} = 100\mu A$ $I_{F} = 1.0mA$ $I_{F} = 10mA$ $I_{F} = 50mA$ $I_{F} = 100mA$		530 605 685 780 895 995 1.07	1050	mV mV mV mV mV V
CT	Diode Capacitance	$V_R = 0V$ , f = 1.0MHz			2.0	pF

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