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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.



**DO-35**  
Color Band Denotes Cathode

### Absolute Maximum Ratings \* $T_a = 25^\circ\text{C}$ 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 $T_A = 25^\circ\text{C}$	250	mW
	Linear Derating Factor from $T_A = 25^\circ\text{C}$	1.67	mW/ $^\circ\text{C}$
$R_{\theta JA}$	Thermal Resistance Junction-to-Ambient	300	$^\circ\text{C}/\text{W}$
$T_{STG}$	Storage Temperature	-55 to +200	$^\circ\text{C}$
$T_J$	Operating Junction Temperature	175	$^\circ\text{C}$

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

### Electrical Characteristics $T_a = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Test Conditions	Min	Typ.	Max.	Units
$B_V$	Breakdown Voltage	$I_R = 5.0\mu\text{A}$	30			V
$I_R$	Reverse Leakage	$V_R = 5.0\text{V}$			3.0	pA
		$V_R = 15\text{V}$			10	pA
$V_F$	Forward Voltage	$I_F = 1.0\mu\text{A}$		530		mV
		$I_F = 10\mu\text{A}$		605		mV
		$I_F = 100\mu\text{A}$		685		mV
		$I_F = 1.0\text{mA}$		780		mV
		$I_F = 10\text{mA}$		895		mV
		$I_F = 50\text{mA}$		995	1050	mV
		$I_F = 100\text{mA}$		1.07		V
$C_T$	Diode Capacitance	$V_R = 0\text{V}, f = 1.0\text{MHz}$			2.0	pF

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