

FJH1100

Ultra Low Leakage Diode

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

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°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/°C
$R_{\theta JA}$	Thermal Resistance Junction-to-Ambient	300	°C/W
T_{STG}	Storage Temperature	-55 to +200	°C
T_J	Operating Junction Temperature	175	°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 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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