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Fairchild Semiconductor FJH1100_T50R

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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.



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
١ _F	DC Forward Current (I _F)	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
$R_{ hetaJA}$	Thermal Resistance Junction-to-Ambient	300	°C/W
T _{STG}	Storage Temperature	-55 to +200	°C
ТJ	Operating Junction Temperature	175	°C

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

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

Symbol	Parameter	Test Conditions	Min	Тур.	Max.	Units
B _V	Breakdown Voltage	I _R = 5.0μA	30			V
Ι _R	Reverse Leakage	V _R = 5.0V V _R = 15V			3.0 10	рА pA
V _F	Forward Voltage	$I_F = 1.0\mu A$ $I_F = 10\mu A$ $I_F = 100\mu A$ $I_F = 1.0m A$ $I_F = 10m A$ $I_F = 50m A$ $I_F = 100m A$		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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