-65°C to +200°C

+175°C

+260°C

500 mW

40 V

25 V

200 mA

500 mA

600 mA

1.0 A

4.0 A

3.3 mW/°C.

AIRCHIL

A Schlumberger Company

FDH900/FDLL900 FDH999/FDLL999

High Speed Switching Diodes

7-03-09

• BV...45V (FDR900), 35 V (FDH999)

• t_{rf}...4.0 ns (FDH900), 5.0 ns (FDH999)

ABSOLUTE MAXIMUM RATINGS (Note 1)

Temperatures

Storage Temperature Range Max. Junction Operating Temperature

Lead Temperature

Power Dissipation (Note 2)

Maximum Total Dissipation at 25°C Ambient

Linear Derating Factor (From 25°C)

Maximum Voltage and Currents Working Inverse Voltage

Average Rectified Current Ю **Continuous Forward Current** ŀF **Recurrent Peak Forward Current**

if(surge) **Peak Forward Surge Current** Pulse Width = 1.0 s Pulse Width = $1.0 \mu s$

PACKAGES -

FDH900 DO-35 FDH999 DO-35 FDLL900 LL-34

FDLL999 LL-34

If you need this device in the SOT package, an electical equivalent is available. See FDSO1200 family.

ELECTRICAL CHARACTERISTICS (25°C Ambient Temperature unless otherwise noted)

SYMBOL	CHARACTERISTIC	FDH900		FDH999			
		MIN	MAX	MIN	MAX	UNITS	TEST CONDITIONS
BV	Breakdown Voltage	45		35		٧	I _R = 5.0 μA
l _R	Reverse Current		500		1.0	μA nA	V _R = 25 V V _R = 40 V
٧F	Forward Voltage		1.0		1.0	V V	IF = 10 mA IF = 100 mA
С	Capacitance		3.0		5.0	pF	V _R = 0, f = 1.0 MHz
trr	Reverse Recovery Time		4.0		5.0	ns	$I_f = 10 \text{ mA}, I_r = 10 \text{ mA},$ $R_L = 100 \Omega, I_{rf} = 1.0 \text{ mA}$

FDH900

FDH999

These ratings are limiting values above which the serviceability of any individual semiconductor device may be impaired.
 These are steady state limits. The factory should be consulted on applications involving pulsed or low duty-cycle operation.
 For product family characteristic curves, refer to Chapter 4, D4.