

## FDH/FDLL 400



DO-35



LL-34

THE PLACEMENT OF THE EXPANSION GAP HAS NO RELATIONSHIP TO THE LOCATION OF THE CATHODE TERMINAL

COLOR BAND MARKING

DEVICE	1ST BAND	2ND BAND
FDLL400	BROWN	VIOLET

### High Voltage General Purpose Diode

Sourced from Process 1J. See MMBD1401-1405 for characteristics.

#### Absolute Maximum Ratings\*

TA = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
$W_{IV}$	Working Inverse Voltage	<b>FDH/FDLL400</b> 150	V
$I_O$	Average Rectified Current	200	mA
$I_F$	DC Forward Current	500	mA
$i_f$	Recurrent Peak Forward Current	600	mA
$i_{f(surge)}$	Peak Forward Surge Current Pulse width = 1.0 second Pulse width = 1.0 microsecond	1.0 4.0	A A
$T_{stg}$	Storage Temperature Range	-65 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.

**NOTES:**

- 1) These ratings are based on a maximum junction temperature of 200 degrees C.
- 2) These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.

#### Thermal Characteristics

TA = 25°C unless otherwise noted

Symbol	Characteristic	Max	Units
		<b>FDH/FDLL 400</b>	
$P_D$	Total Device Dissipation Derate above 25°C	500	mW
		3.33	mW/°C
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	300	°C/W

## High Voltage General Purpose Diode

(continued)

### Electrical Characteristics

TA = 25°C unless otherwise noted

Symbol	Parameter	Test Conditions	Min	Max	Units
B <sub>V</sub>	Breakdown Voltage <b>FDH/FDLL400</b>	I <sub>R</sub> = 100 μA	200		V
I <sub>R</sub>	Reverse Current <b>FDH/FDLL400</b>	V <sub>R</sub> = 150 V V <sub>R</sub> = 150 V, T <sub>A</sub> = 150°C		100 100	nA μA
V <sub>F</sub>	Forward Voltage <b>FDH/FDLL400</b>	I <sub>F</sub> = 200 mA I <sub>F</sub> = 300 mA		1.0 1.1	V V
C <sub>O</sub>	Diode Capacitance <b>FDH/FDLL400</b>	V <sub>R</sub> = 0, f = 1.0 MHz		2.0	pF
T <sub>RR</sub>	Reverse Recovery Time <b>FDH/FDLL400</b>	I <sub>F</sub> = I <sub>R</sub> = 30 mA, I <sub>rr</sub> = 3.0 mA, R <sub>L</sub> = 100 Ω		50	nS

FDH400 / FDLL400

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