

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 FDH/FDLL400	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
		FDH/FDLL 400	
P_D	Total Device Dissipation Derate above 25°C	500 3.33	mW 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
BV	Breakdown Voltage FDH/FDLL400	IR = 100 µA	200		V
IR	Reverse Current FDH/FDLL400	VR = 150 V VR = 150 V, TA = 150°C		100 100	nA µA
VF	Forward Voltage FDH/FDLL400	IF = 200 mA IF = 300 mA		1.0 1.1	V V
CO	Diode Capacitance FDH/FDLL400	VR = 0, f = 1.0 MHz		2.0	pF
T _{RR}	Reverse Recovery Time FDH/FDLL400	IF = IR = 30 mA, Irr = 3.0 mA, RL = 100 Ω		50	nS

FDH400 / FDLL400

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