

FDH/FDLL 400





COLOR BAND MARKING **DEVICE** 1ST BAND 2ND BAND BROWN FDLL400 VIOLET

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

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 FDI	I/FDLL400	150	V	
Io	Average Rectified Current		200	mA	
I _F	DC Forward Current		500	mA	
İf	Recurrent Peak Forward Current		600	mA	
İf(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	
TJ	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	500	mW
	Derate above 25°C	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 _V	Breakdown Voltage FDH/FDLL400	I _R = 100 μA	200		V
I _R	Reverse Current FDH/FDLL400	V _R = 150 V V _R = 150 V, T _A = 150°C		100 100	nA μA
V _F	Forward Voltage FDH/FDLL400	I _F = 200 mA I _F = 300 mA		1.0 1.1	V
Co	Diode Capacitance FDH/FDLL400	V _R = 0, f = 1.0 MHz		2.0	pF
T _{RR}	Reverse Recovery Time FDH/FDLL400	$I_F = I_R = 30$ mA, $I_{rr} = 3.0$ mA, $R_L = 100$ Ω		50	nS

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