

FDH/FDLL 400





COLOR BAND MARKING <u>DEVICE</u> 1ST BAND 2ND BAND

FDLL400 BROWN VIOLET

LL-34 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 FDH/FDLL400	150	V	
l _o	Average Rectified Current	200	mA	
l _F	DC Forward Current	500	mA	
İf	Recurrent Peak Forward Current	600	mA	
if(surge) T _{stg}	Peak Forward Surge Current Pulse width = 1.0 second Pulse width = 1.0 microsecond Storage Temperature Range	1.0 4.0 -65 to +200	A A °C	
T _J	Operating Junction Temperature	175	°C	

^{*}These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

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

 $TA = 25^{\circ}C$ 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	$V_R = 0$, $f = 1.0 \text{ MHz}$		2.0	pF
T _{RR}	Reverse Recovery Time FDH/FDLL400	$I_F = I_R = 30 \text{ mA}, I_{rr} = 3.0 \text{ mA},$ $R_I = 100 \Omega$		50	nS



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