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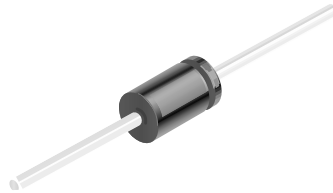
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FDH444



DO-35

Color Band Denotes Cathode

Small Signal Diode

Absolute Maximum Ratings*

$T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Value	Units
V_{RRM}	Maximum Repetitive Reverse Voltage	150	V
$I_{F(AV)}$	Average Rectified Forward Current	200	mA
I_{FSM}	Non-repetitive 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	$^\circ\text{C}$
T_J	Operating Junction Temperature	175	$^\circ\text{C}$

*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

Symbol	Parameter	Value	Units
P_D	Power Dissipation	500	mW
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	300	$^\circ\text{C}/\text{W}$

Electrical Characteristics

$T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Test Conditions	Min	Max	Units
V_R	Breakdown Voltage	$I_R = 100 \mu\text{A}$	150		V
V_F	Forward Voltage	$I_F = 200 \text{ mA}$ $I_F = 300 \text{ mA}$		1.1 1.2	V V
I_R	Reverse Current	$V_R = 100 \text{ V}$ $V_R = 100 \text{ V}, T_A = 150^\circ\text{C}$		50 100	nA μA
C_T	Total Capacitance	$V_R = 0, f = 1.0 \text{ MHz}$		2.5	pF
t_{rr}	Reverse Recovery Time	$I_F = I_R = 30 \text{ mA},$ $R_L = 100 \Omega, I_{rr} = 3.0 \text{ mA}$		60	ns

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