Small Signal Diode

FDH444

AXIAL LEAD
CASE 017AG

Features

- This is a Pb−Free and Halide Free Device

ABSOLUTE MAXIMUM RATINGS

(Values are at T_A = 25°C unless otherwise noted.) (Notes 1 and 2)

Symbol	Parameter	Value	Unit
V_{RRM}	Working Inverse Voltage	150	V
$I_{F(AV)}$	Average Rectified Forward Current	200	mA
I_{FSM}	Non−Repetitive Peak Forward 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

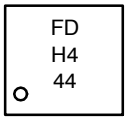
Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

1. These ratings are based on a maximum junction temperature of 200°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	Unit
P_D	Power Dissipation	500	mW
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	300	°C/W

MARKING DIAGRAM



FDH444 = Specific Device Code

ORDERING INFORMATION

Device	Package	Shipping†
FDH444	AXIAL LEAD (Pb−Free / Halide Free)	5000 / Bulk Bag
FDH444TR	AXIAL LEAD (Pb−Free / Halide Free)	10000 / Tape & Reel

†For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification Brochure, BRD8011/D.

ELECTRICAL CHARACTERISTICS (Values are at T_A = 25°C unless otherwise noted.)

Symbol	Parameter	Test Conditions	Min	Max	Unit
V_R	Breakdown Voltage	I_R = 100 μA	150	–	V
V_F	Forward Voltage	I_F = 200 mA I_F = 300 mA	– –	1.1 1.2	V V
I_R	Reverse Current	V_R = 100 V V_R = 100 V, T_A = 150°C	– –	50 100	nA μA
C_T	Total Capacitance	V_R = 0, f = 1.0 MHz	–	2.5	pF
t_{rr}	Reverse Recovery Time	I_F = I_R = 30 mA, R_L = 100 Ω, I_{rr} 3.0 mA	–	60	ns

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

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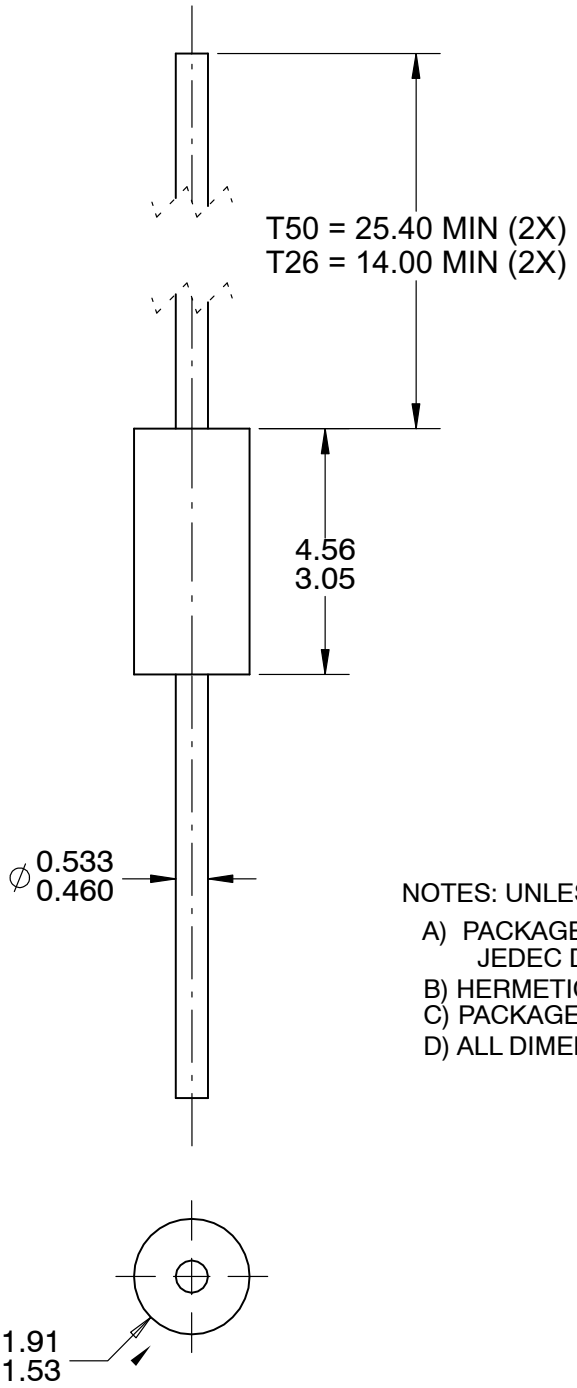

NOTES: UNLESS OTHERWISE SPECIFIED

A) PACKAGE STANDARD REFERENCE: JEDEC DO−204, VARIATION AH.
B) HERMETICALLY SEALED GLASS PACKAGE.
C) PACKAGE WEIGHT IS 0.137 GRAM.
D) ALL DIMENSIONS ARE IN MILLIMETERS.

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