High Voltage General Purpose Diode

FDH400, FDLL400

AXIAL LEAD
(DO−35)
CASE 017AG

MiniMELF/SOD−80
CASE 100AD

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
W_{IV}	Working Inverse Voltage		150	V
I_O	Average Rectified Forward Current		200	mA
I_F	DC Forward Current		500	mA
i_F	Recurrent Peak Forward Current		600	mA
I_{FSM}	Non−Repetitive Peak Forward Current	Pulse Width = 1.0 s	1.0	A
		Pulse Width = 1.0 μs	4.0	
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.

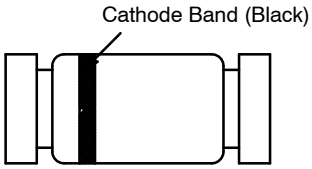
1. These ratings are based on a maximum junction temperature of 200°C.
2. These are steady−state limits. **onsemi** should be consulted on applications involving pulsed or low−duty−cycle operations.

THERMAL CHARACTERISTICS

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

Symbol	Parameter	Max FDH/FDLL400	Unit
P_D	Power Dissipation	500	mW
	Derate above 25°C	3.33	mW/°C
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	300	°C/W

MARKING DIAGRAM



(1st band denotes cathode terminal and has wider width)

ORDERING INFORMATION

Device	Package	Shipping†
FDLL400	MiniMELF/SOD−80 (Pb−Free/Halide Free)	2500 / Tape & Reel
FDH400	AXIAL LEAD (Pb−Free / Halide Free)	5000 / Bulk
FDH400TR	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.

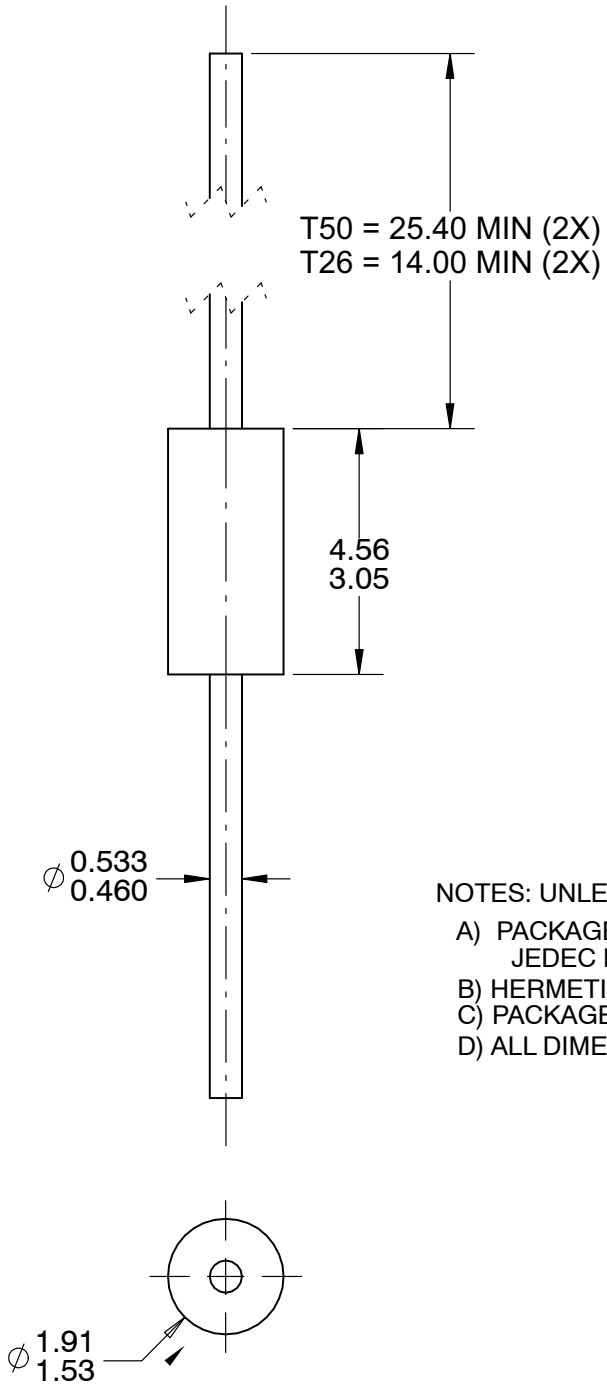
ELECTRICAL CHARACTERISTICS (Values are at T_A = 25°C unless otherwise noted.)

Symbol	Parameter	Test Conditions	Min	Max	Unit
V_R	Breakdown Voltage	I_R = 100 μA	200	–	V
I_R	Reverse Leakage	V_R = 150 V	–	100	nA
		V_R = 150 V, T_A = 150°C	–	100	μA
V_F	Forward Voltage	I_F = 200 mA	–	1.0	V
		I_F = 300 mA	–	1.1	
C_O	Diode Capacitance	V_R = 0, f = 1.0 MHz	–	2.0	pF
t_{rr}	Reverse Recovery Time	I_F = I_R = 30 mA , I_{rr} = 3.0 mA, R_L = 100 Ω	–	50	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.

AXIAL LEAD
CASE 017AG
ISSUE O

DATE 31 AUG 2016



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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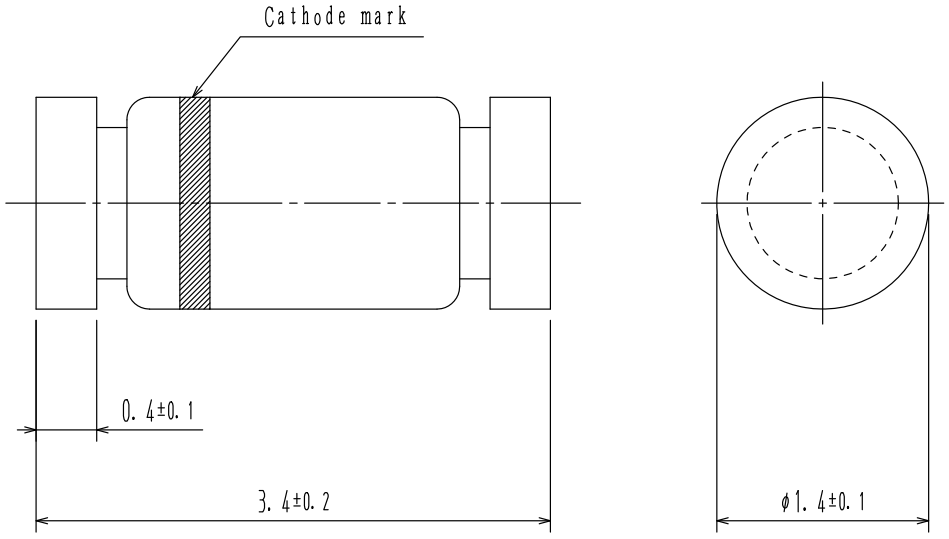
DESCRIPTION:	**AXIAL LEAD**		**PAGE 1 OF 1**

MECHANICAL CASE OUTLINE
PACKAGE DIMENSIONS

MiniMELF / SOD−80
CASE 100AD
ISSUE O

DATE 30 APR 2012



NOTES: UNLESS OTHERWISE SPECIFIED

A) PACKAGE STANDARD REFERENCE: JEDEC DO-213, VARIATION AC.

B) ALL DIMENSIONS ARE IN MILLIMETERS.

△C CORNER RADIUS IS OPTIONAL.

D) DRAWING FILE NAME: SOD80A REV01

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DESCRIPTION:	**MINIMELF / SOD−80**	**PAGE 1 OF 1**

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