

Small Signal Diode FDLL457A / 1N457A

ABSOLUTE MAXIMUM RATINGS

(T_A = 25°C unless otherwise noted) (Note 1)

Symbol	Rating	Value	Unit
V_{RRM}	Maximum Repetitive Reverse Voltage	70	V
I _{F(AV)}	Average Rectified Forward Current	200	mA
I _{FSM}	Non-repetitive Peak Forward Current Pulse Width = 1.0 s Pulse Width = 1.0 µs	1.0 4.0	A
T _{STG}	Storage Temperature Range	-65 to +200	°C
TJ	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.

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

Measured on 8.3 ms single half-sine wave or equivalent square wave. Duty cycle = 4 pulses per minute maximum.

THERMAL CHARACTERISTICS

Symbol	Parameter	Max	Unit
P_{D}	Power Dissipation	500	mW
$R_{\theta JA}$	Thermal Resistance, Junction-to-Ambient	350	°C

ELECTRICAL CHARACTERISTICS

(T_A = 25°C unless otherwise noted)

Symbol	Parameter	Conditions	Min	Max	Unit
V _R	Breakdown Voltage	Ι _R = 100 μΑ	85	ı	V
V _F	Forward Voltage	I _F = 10 mA I _F = 100 mA	1 1	1.0 1.0	V V
I _R	Reverse Leakage	V _R = 60 V V _R = 60 V, T _A = 150°C	1 1	25 5.0	nA μA
C _T	Total Capacitance	V _R = 0, f = 1.0 MHz	-	6.0	pF

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.



MiniMELF / SOD-80 CASE 100AD

(Color Band Denotes Cathode)

MARKING DIAGRAM

COLOR BAND MARKING

DEVICE 1ST BAND

FDLL457A WHITE

FDLL457A = Specific Device Code

ORDERING INFORMATION

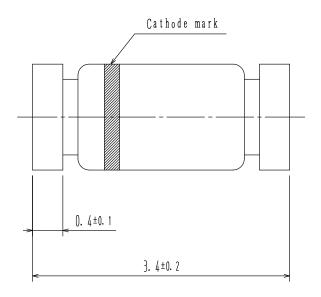
Device	Package	Shipping [†]
FDLL457A	SOD-80 (Pb-Free)	2,500 Units / Tape & Reel

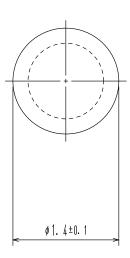
†For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.



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.
- CORNER RADIUS IS OPTIONAL.
- D) DRAWING FILE NAME: SOD80A REV01

DOCUMENT NUMBER:	98AON79582E	Electronic versions are uncontrolled except when accessed directly from the Document Repository. Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.	
DESCRIPTION:	MINIMELF / SOD-80		PAGE 1 OF 1

onsemi and Onsemi are trademarks of Semiconductor Components Industries, LLC dba onsemi or its subsidiaries in the United States and/or other countries. onsemi reserves the right to make changes without further notice to any products herein. onsemi makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does onsemi assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. onsemi does not convey any license under its patent rights nor the rights of others.

onsemi, Onsemi, and other names, marks, and brands are registered and/or common law trademarks of Semiconductor Components Industries, LLC dba "onsemi" or its affiliates and/or subsidiaries in the United States and/or other countries. onsemi owns the rights to a number of patents, trademarks, copyrights, trade secrets, and other intellectual property. A listing of onsemi's product/patent coverage may be accessed at www.onsemi.com/site/pdf/Patent-Marking.pdf. Onsemi reserves the right to make changes at any time to any products or information herein, without notice. The information herein is provided "as-is" and onsemi makes no warranty, representation or guarantee regarding the accuracy of the information, product features, availability, functionality, or suitability of its products for any particular purpose, nor does onsemi assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. Buyer is responsible for its products and applications using onsemi products, including compliance with all laws, regulations and safety requirements or standards, regardless of any support or applications information provided by onsemi. "Typical" parameters which may be provided in onsemi data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typicals" must be validated for each customer application by customer's technical experts. onsemi does not convey any license under any of its intellectual property rights nor the rights of others. onsemi products are not designed, intended, or authorized for use as a critical component in life support systems or any FDA class 3 medical devices with a same or similar classification in a foreign jurisdiction or any devices intended for implantation in the human body. Should Buyer purchase

ADDITIONAL INFORMATION

TECHNICAL PUBLICATIONS:

 $\textbf{Technical Library:} \ \underline{www.onsemi.com/design/resources/technical-documentation}$

onsemi Website: www.onsemi.com

ONLINE SUPPORT: www.onsemi.com/support

For additional information, please contact your local Sales Representative at

www.onsemi.com/support/sales