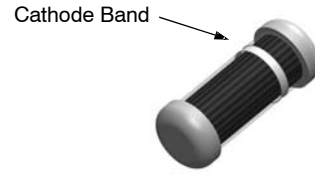


Small Signal Diode

FDLL457A / 1N457A



MiniMELF / SOD-80
CASE 100AD
(Color Band Denotes Cathode)

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
T _J	Operating Junction Temperature	175	°C

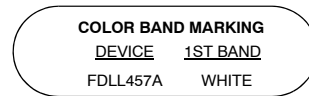
Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

1. These ratings are 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.

MARKING DIAGRAM



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.

THERMAL CHARACTERISTICS

Symbol	Parameter	Max	Unit
P _D	Power Dissipation	500	mW
R _{θJA}	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	I _R = 100 μA	85	-	V
V _F	Forward Voltage	I _F = 10 mA I _F = 100 mA	-	1.0 1.0	V V
I _R	Reverse Leakage	V _R = 60 V V _R = 60 V, T _A = 150°C	-	25 5.0	nA μA
C _T	Total Capacitance	V _R = 0, f = 1.0 MHz	-	6.0	pF

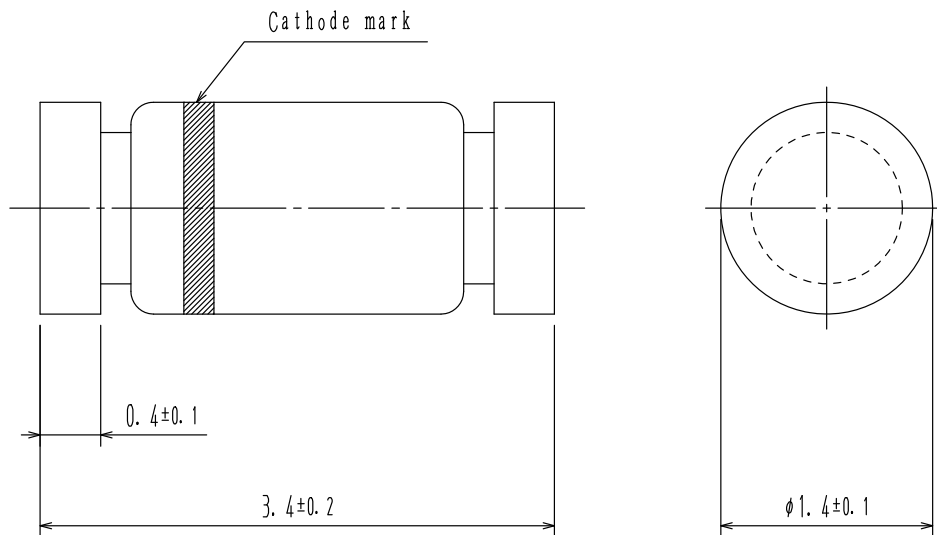
Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

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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