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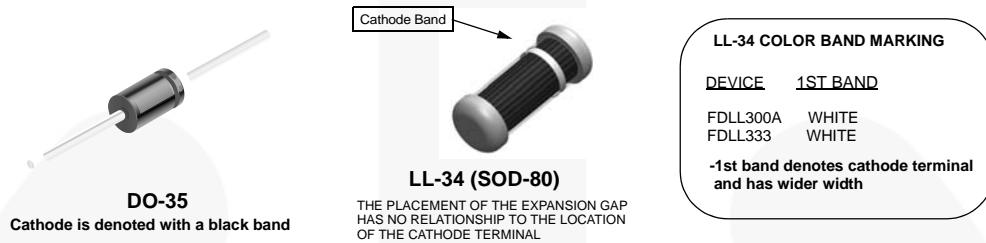
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February 2016



FDH300 / FDH300A / FDLL300A / FDH333 / FDLL333 High Conductance Low Leakage Diode



Ordering Information

Part Number	Top Mark	Package	Packing Method
FDH300TR	H300	DO-204AH (DO-35)	Tape and Reel
FDH300A	H300A	DO-204AH (DO-35)	Bulk
FDH300ATR	H300A	DO-204AH (DO-35)	Tape and Reel
FDH333	H333	DO-204AH (DO-35)	Bulk
FDH333TR	H333	DO-204AH (DO-35)	Tape and Reel
FDLL300A	WHITE	SOD-80 2L	Tape and Reel
FDLL333	WHITE	SOD-80 2L	Tape and Reel

Absolute Maximum Ratings^{(1), (2)}

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only. Values are at $T_A = 25^\circ\text{C}$ unless otherwise noted.

Symbol	Parameter		Value	Unit
W_{IV}	Working Inverse Voltage		125	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 Surge Current	Pulse Width = 1.0 s	1.0	A
		Pulse Width = 1.0 μs	4.0	
T_{STG}	Storage Temperature Range		-65 to +200	$^\circ\text{C}$
T_J	Operating Junction Temperature		175	$^\circ\text{C}$

Notes:

1. These ratings are based on a maximum junction temperature of 175°C .
2. These are steady-state limits. Fairchild Semiconductor should be consulted on applications involving pulsed or low-duty-cycle operations.

Thermal Characteristics

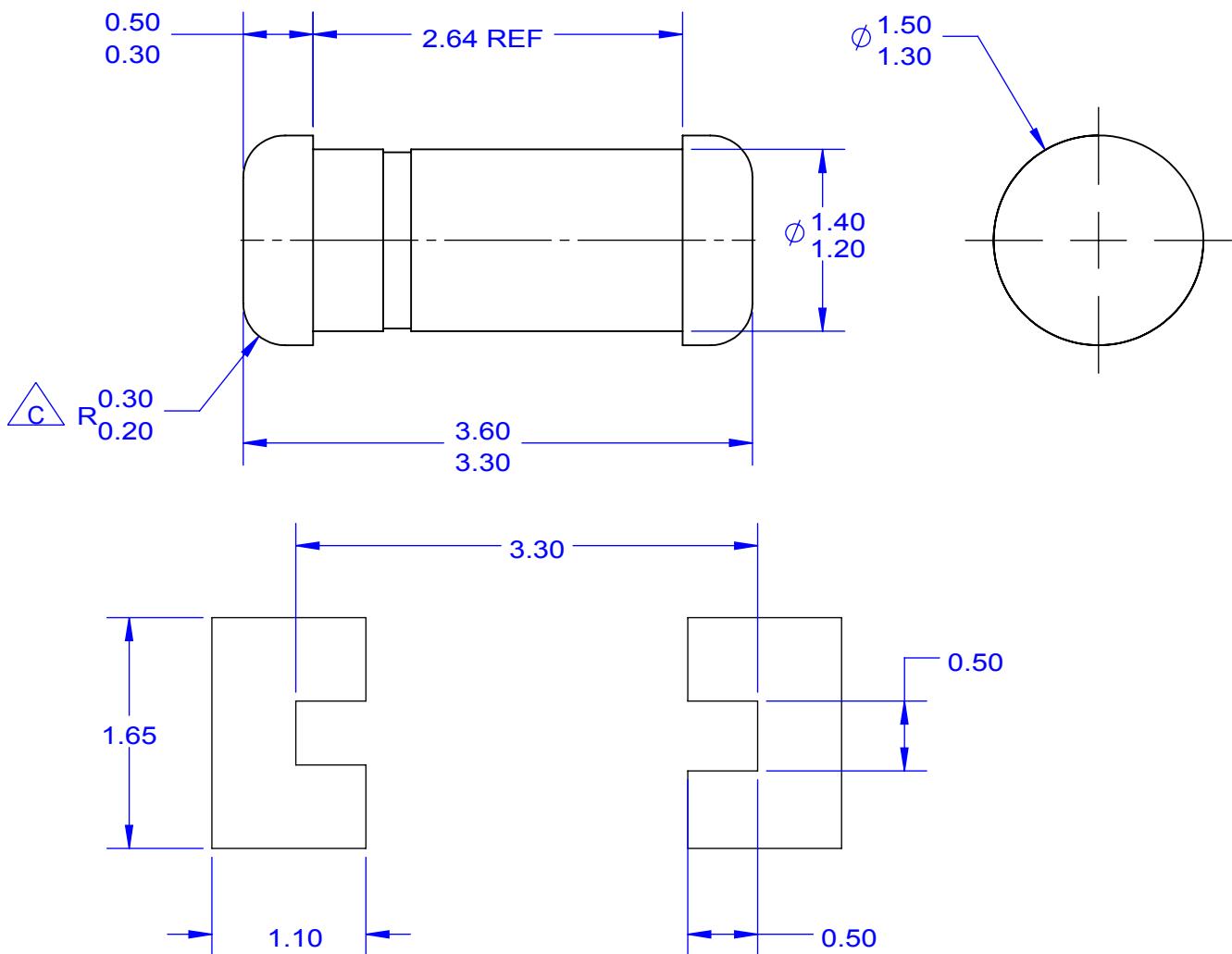
Values are at $T_A = 25^\circ\text{C}$ unless otherwise noted.

Symbol	Parameter	Max.	Unit
P_D	Total Device Dissipation	500	mW
	Derate Above 25°C	3.33	$\text{mW}/^\circ\text{C}$
$R_{\theta\text{JA}}$	Thermal Resistance, Junction-to-Ambient	300	$^\circ\text{C}/\text{W}$

Electrical Characteristics

Values are at $T_A = 25^\circ\text{C}$ unless otherwise noted.

Symbol	Parameter	Conditions	Min.	Max.	Unit
V_R	Breakdown Voltage	$I_R = 100 \mu\text{A}$	150		V
V_F	Forward Voltage	FDH300 / FDH300A / FDLL300A	$I_F = 1.0 \text{ mA}$		680 mV
		FDH300	$I_F = 5.0 \text{ mA}$		750 mV
		FDH300A / FDLL300A	$I_F = 5.0 \text{ mA}$		760 mV
		FDH300 / FDH300A / FDLL300A	$I_F = 10 \text{ mA}$		800 mV
		FDH300	$I_F = 50 \text{ mA}$		880 mV
		FDH300A / FDLL300A	$I_F = 50 \text{ mA}$		890 mV
		FDH300 / FDH300A / FDLL300A	$I_F = 100 \text{ mA}$		920 mV
		FDH300 / FDH300A / FDLL300A	$I_F = 200 \text{ mA}$	1.0	V
		FDH333 / FDLL333	$I_F = 50 \text{ mA}$	800	890 mV
			$I_F = 100 \text{ mA}$	830	940 mV
			$I_F = 150 \text{ mA}$	860	970 mV
			$I_F = 200 \text{ mA}$	0.87	1.05 V
			$I_F = 250 \text{ mA}$	0.88	1.08 V
			$I_F = 300 \text{ mA}$	0.90	1.15 V
I_R	Reverse Current	FDH300 / FDH300A / FDLL300A	$V_R = 125 \text{ V}$	1.0	nA
			$V_R = 125 \text{ V}, T_A = 150^\circ\text{C}$	3.0	μA
		FDH333 / FDLL333	$V_R = 125 \text{ V}$	3.0	nA
			$V_R = 125 \text{ V}, T_A = 100^\circ\text{C}$	500	nA
C_O	Diode Capacitance	$V_R = 0, f = 1.0 \text{ MHz}$		6.0	pF

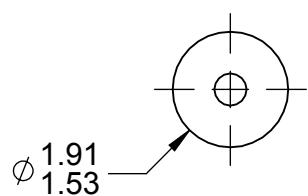
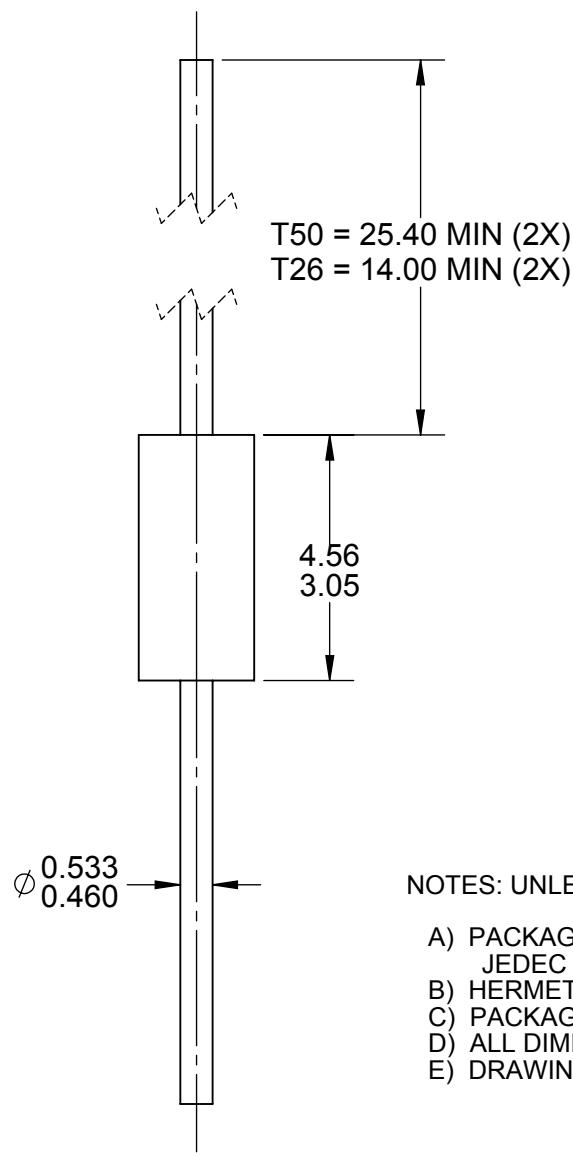


LAND PATTERN RECOMMENDATION

NOTES: UNLESS OTHERWISE SPECIFIED

- A) PACKAGE STANDARD REFERENCE:
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- B) ALL DIMENSIONS ARE IN MILLIMETERS.
-  C CORNER RADIUS IS OPTIONAL.
- D) LAND PATTERN RECOMMENDATION PER IPC DIOMELF3414N
- E) DRAWING FILE NAME: SOD80A REV3





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- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
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- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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