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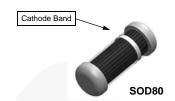
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April 2013

FDLL485B High Conductance, Low Leakage Diode



Description

A general purpose diode that couples high forward conductance fast swiching speed and high blocking voltages in a glass leadless LL-34 surface mount package. Placement of the expansion gap has no relationship to the location of the cathode terminal which is indicated by the first color band.

Absolute Maximum Ratings(1)

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 $T_A = 25^{\circ}$ C unless otherwise noted.

Symbol	Parameter	Value	Units	
W _{IV}	Working Inverse Voltage		180	V
I _O	Average Rectified Current	200	mA	
I _F	DC Forward Current		500	mA
i _f	Recurrent Peak Forward Current		600	mA
I _{FSM}	Non ropotitive Book Forward Current	Pulse Width = 1.0 s	1.0	Α
	Non-repetitive Peak Forward Current	Pulse Width = 1.0 μs	4.0	Α
T _{STG}	Storage Temperature Range		-65 to +200	°C
TJ	Operating Junction Temperature		-65 to +200	°C

Note:

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

Thermal Characteristics

Symbol	Parameter	Value	Units
D-	Power Dissipation	500	mW
P _D	Linear Derating Factor from T _A = 25°C	3.33	mW/°C
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	350	°C/W

Electrical Characteristics

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

Symbol	Parameter	Conditions	Min.	Max.	Units
V_{R}	Breakdown Voltage	I _R = 100 μA	200		V
V _F	Forward Voltage	I _F = 100 mA		1.0	V
I _R	Reverse Leakage	V _R = 180 V		25	nA
		V _R = 180 V, T _A = 150°C		5.0	μΑ
C _T	Total Capacitance	V _R = 0, f = 1.0 MHz		6.0	pF

1

Typical Performance Characteristics

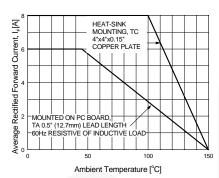


Figure 1. Forward Current Derating Curve

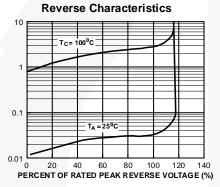


Figure 3. Reverse Characteristics

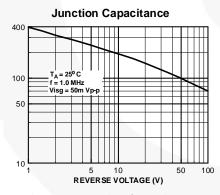


Figure 5. Junction Capacitance

Figure 2. Forward Characteristics

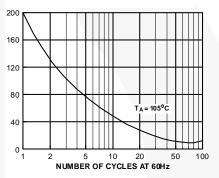


Figure 4. Non-Repetitive Surge Current

Physical Dimensions

SOD-80

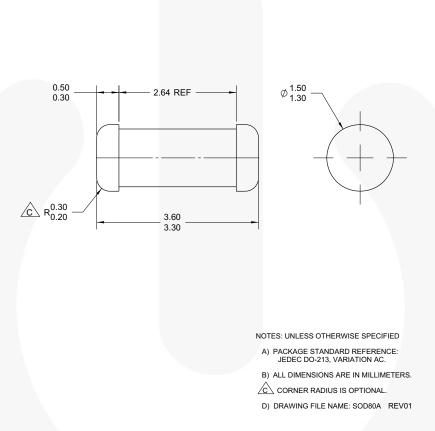


Figure 6. 2-TERMINAL, SOD-80, JEDEC DO-213AC, MINI-MELF

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Definition of Torms

Definition of Terms				
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