

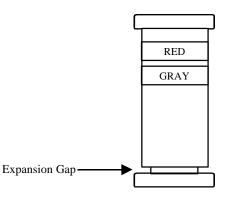
SEMICONDUCTOR IM

FDLL485B

General Description:

A General Purpose diode that couples high forward conductance fast switching 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.



High Conductance, Low Leakage Diode Absolute Maximum Ratings* TA = 25°C unless otherwise noted

Sym	Parameter	Value	Units
T _{stg}	Storage Temperature	-65 to +200	°C
TJ	Operating Junction Temperature	-65 to +200	О ^о
P _D	Total Power Dissipation at $T_A = 25^{\circ}C$	500	mW
	Linear Derating Factor from $T_A = 25^{\circ}C$	3.33	mW/ ^o C
R _{OJA}	Thermal Resistance Junction-to-Ambient	350	°C/W
W _{iv}	Working Inverse Voltage	180	V
I _o	Average Rectified Current	200	mA
I _F	DC Forward Current (IF)	500	mA
i _f	Recurrent Peak Forward Current	600	mA
i _{F(surge)}	Peak Forward Surge Current (IFSM) Pulse Width = 1.0 second	1.0	Amp
. 57	Pulse Width = 1.0 microsecond	4.0	Amp

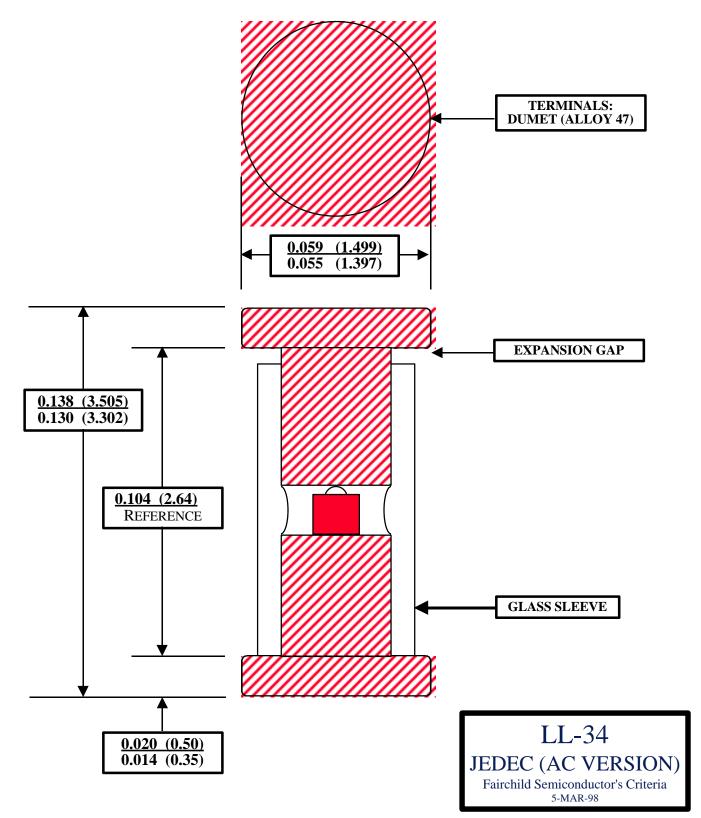
*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired

Electrical Characteristics TA = 25^oC unless otherwise noted

SYM CH	IARACTERISTICS	MIN	МАХ	UNITS	TEST CONDITIONS
B _v Breako	lown Voltage	200		V	I _R = 100 uA
I _R Revers	se Leakage		25 5.0	nA uA	$V_{R} = 180 V$ $V_{R} = 180 V T_{A} = 150^{\circ}C$
V _F Forwar	d Voltage		1.00	V	I _F = 100 mA
C _T Capac	itance		6.0	pF	$V_{R} = 0.0 V, f = 1.0 MHz$
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THE PLACEMENT OF THE EXPANSION GAP HAS NO RELATIONSHIP TO THE LOCATION OF THE CATHODE TERMINAL OF THE DEVICE. THE EXPANSION GAP & CATHODE BAND CAN BE ON THE SAME TERMINAL OR AT OPPOSITE TERMINALS OF THE DIODE.



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PRODUCT STATUS DEFINITIONS

Definition of Terms

Product Status	Definition
Formative or In Design	This datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
First Production	This datasheet contains preliminary data, and supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
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	Formative or In Design First Production Full Production