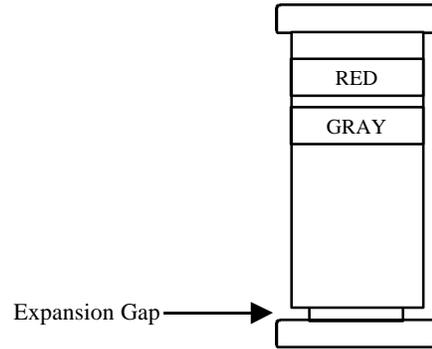


FDLL485B

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

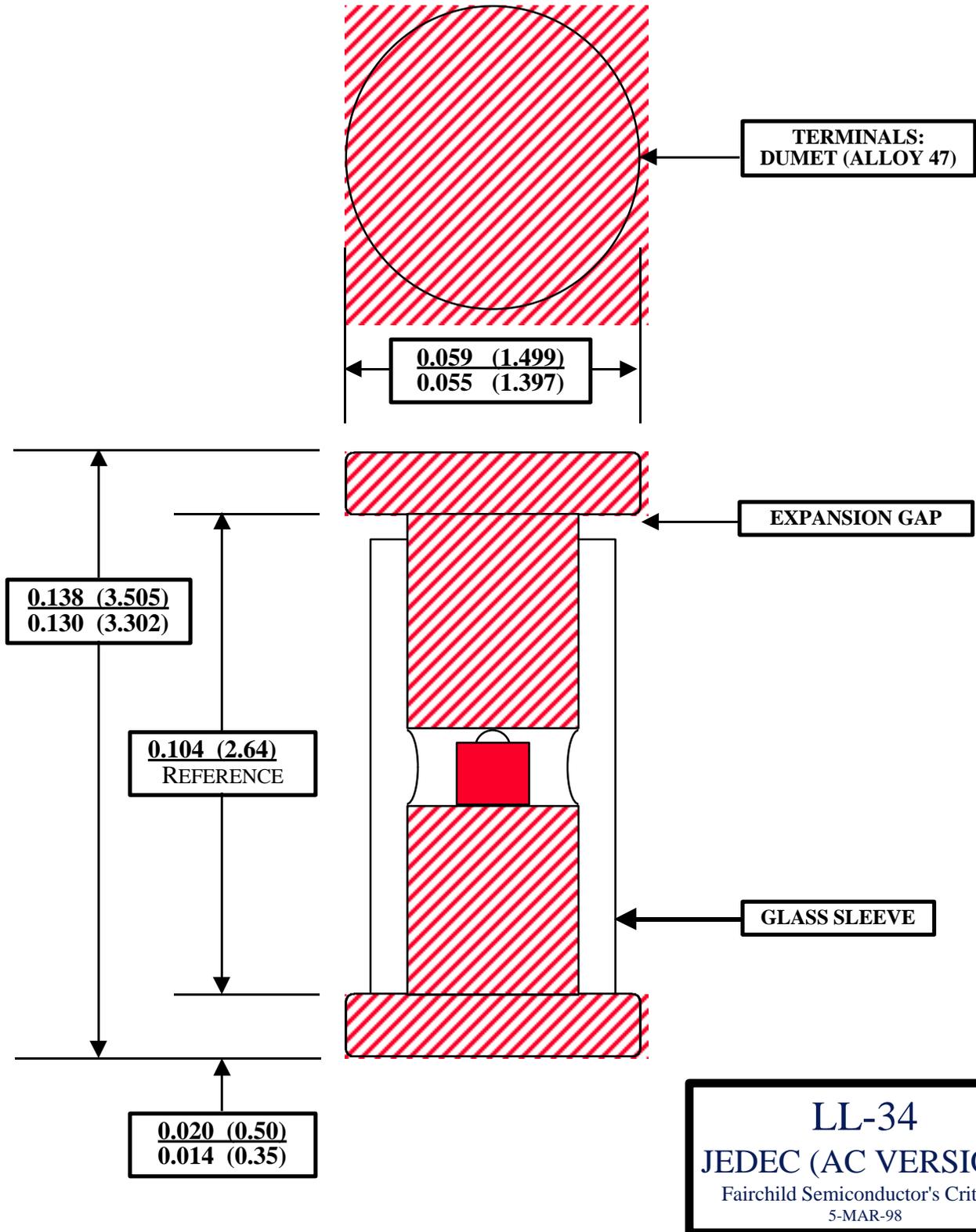
Sym	Parameter	Value	Units
T _{stg}	Storage Temperature	-65 to +200	°C
T _J	Operating Junction Temperature	-65 to +200	°C
P _D	Total Power Dissipation at T _A = 25°C	500	mW
	Linear Derating Factor from T _A = 25°C	3.33	mW/°C
R _{QJA}	Thermal Resistance Junction-to-Ambient	350	°C/W
W _{IV}	Working Inverse 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
	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°C unless otherwise noted

SYM	CHARACTERISTICS	MIN	MAX	UNITS	TEST CONDITIONS
B _V	Breakdown Voltage	200		V	I _R = 100 uA
I _R	Reverse Leakage		25	nA	V _R = 180 V
			5.0	uA	V _R = 180 V T _A = 150°C
V _F	Forward Voltage		1.00	V	I _F = 100 mA
C _T	Capacitance		6.0	pF	V _R = 0.0 V, f = 1.0 MHz

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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DOME™	ISOPLANAR™	Quiet Series™	
E ² CMOS™	MICROWIRE™	SILENT SWITCHER®	
EnSigna™	OPTOLOGIC™	SMART START™	
FACT™	OPTOPLANAR™	SuperSOT™-3	
FACT Quiet Series™	PACMAN™	SuperSOT™-6	
FAST®	POP™	SuperSOT™-8	

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2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
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No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
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