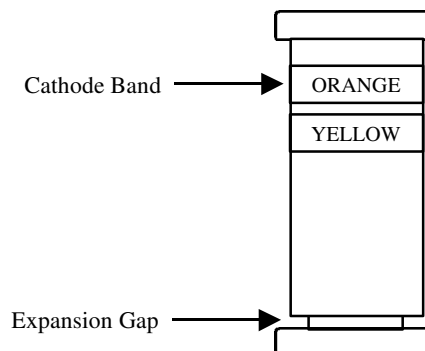


FDLL3595

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

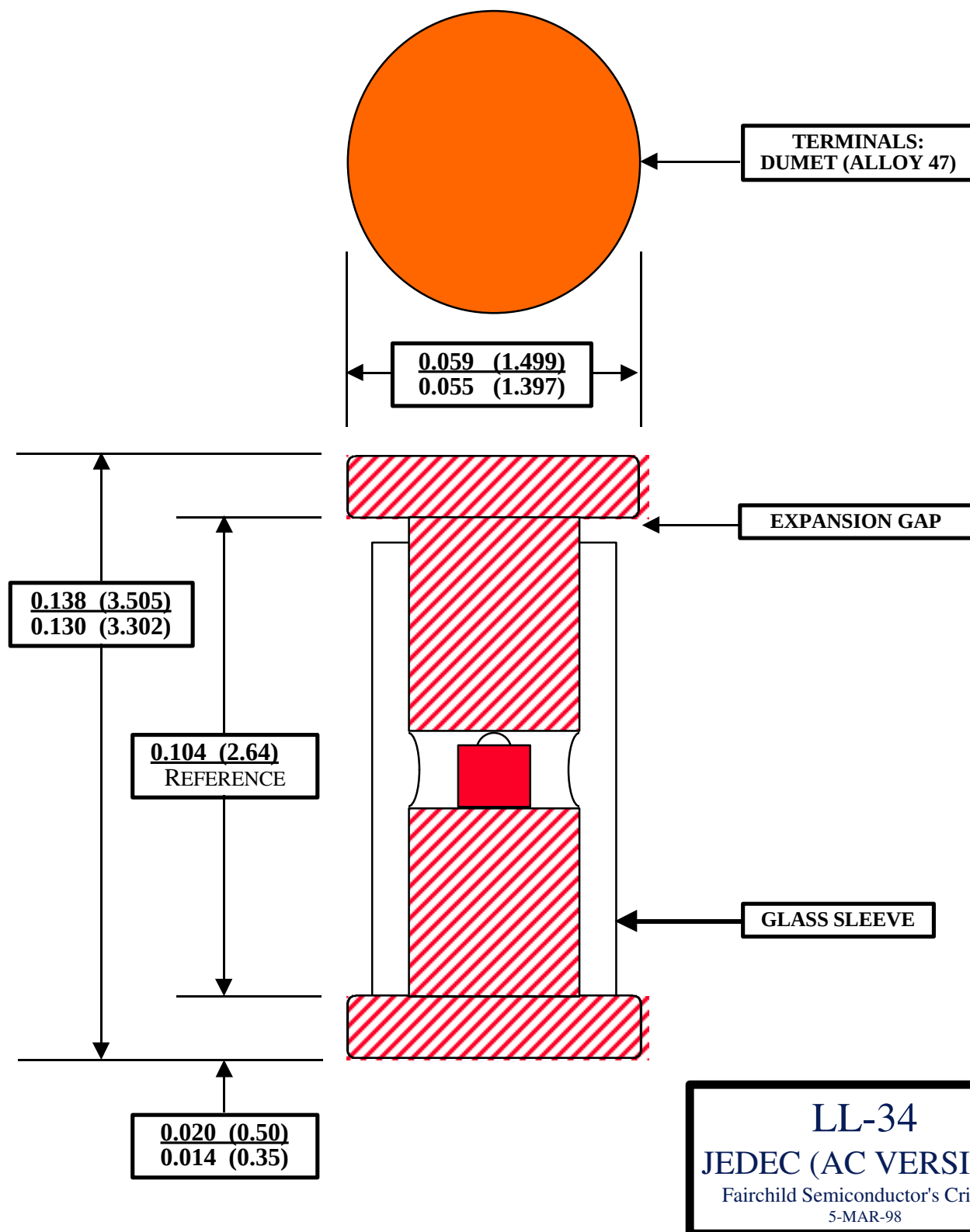
Sym	Parameter	Value	Units
T _{stg}	Storage Temperature	-65 to +200	°C
T _J	Operating Junction Temperature	-65 to +200	°C
P _D	Total Power Dissipation at T _A = 25°C	500	mW
	Linear Derating Factor from T _A = 25°C	3.33	mW/°C
R _{OJA}	Thermal Resistance Junction-to-Ambient	350	°C/W
W _{iv}	Working Inverse Voltage	125	V
I _O	Average Rectified Current	200	mA
I _F	DC Forward Current (I _F)	500	mA
i _f	Recurrent Peak Forward Current	600	mA
i _{F(surge)}	Peak Forward Surge Current (I _{FSM}) 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	150		V	I _R = 100 uA
I _R	Reverse Leakage		1.0 300 500 3.0	nA nA nA uA	V _R = 125 V V _R = 30 V T _A = 125°C V _R = 125 V T _A = 125°C V _R = 180 V T _A = 150°C
V _F	Forward Voltage	520 600 650 750 790 0.83	680 750 800 880 920 1.00	mV mV mV mV mV V	I _F = 1.0 mA I _F = 5.0 mA I _F = 10 mA I _F = 50 mA I _F = 100 mA I _F = 200 mA
C _T	Capacitance		8.0	pF	V _R = 0.0 V, f = 1.0 MHz
T _{RR}	Reverse Recovery Time		3.0	us	I _F = 10 mA V _R = 3.5 V R _L = 1.0 kOhms

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

Datasheet Identification	Product Status	Definition
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