



LFB01, 01L

Silicon Planar Leadless Type

## Ultrahigh-Speed Switching Diode

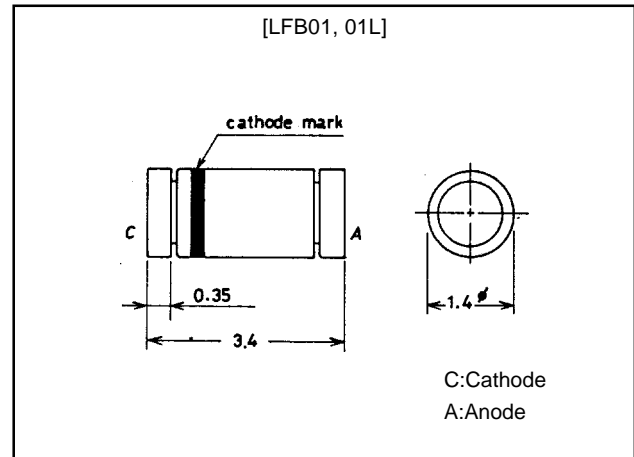
### Features

- Highly reliable leadless glass sleeve structure.
- Very small size.
- Capable of being surface-mounted.
- Forward voltage :  $V_F$  max=1.2V.
- Interterminal capacitance : C max=3pF.
- Reverse recovery time :  $t_{rr}$  max=4ns.

### Package Dimensions

unit:mm

1137



### Specifications

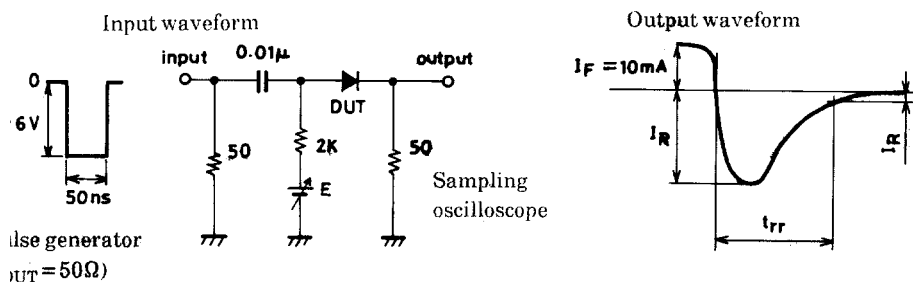
#### Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	LFB01L	LFB01	Unit
Peak Reverse Voltage	$V_{RM}$		55	90	V
Reverse Voltage	$V_R$		50	80	V
Peak Forward Current	$I_{FM}$		→	480	mA
Average Rectified Current	$I_O$		→	150	mA
Surge Current	$I_{FSM}$		→	2	A
Allowable Power Dissipation	P		→	300	mW
Junction Temperature	$T_J$		→	+175	$^\circ\text{C}$
Storage Temperature	$T_{stg}$		→	-65 to +175	$^\circ\text{C}$

#### Electrical Characteristics at $T_a = 25^\circ\text{C}$

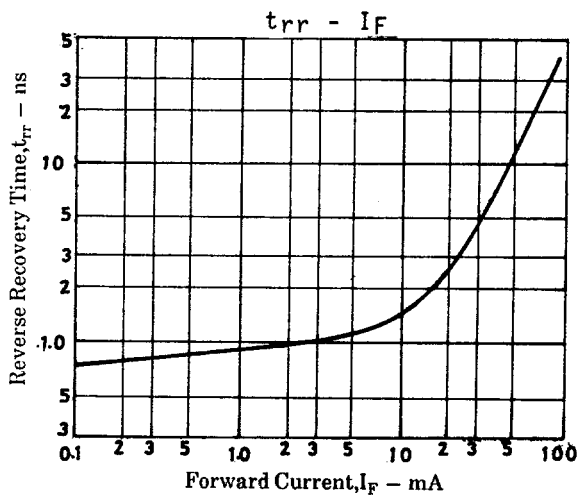
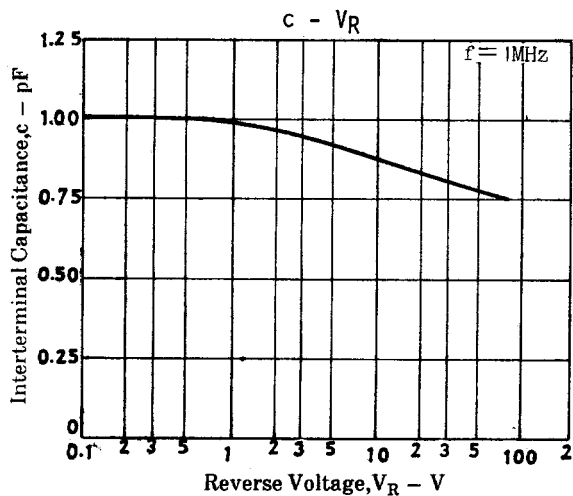
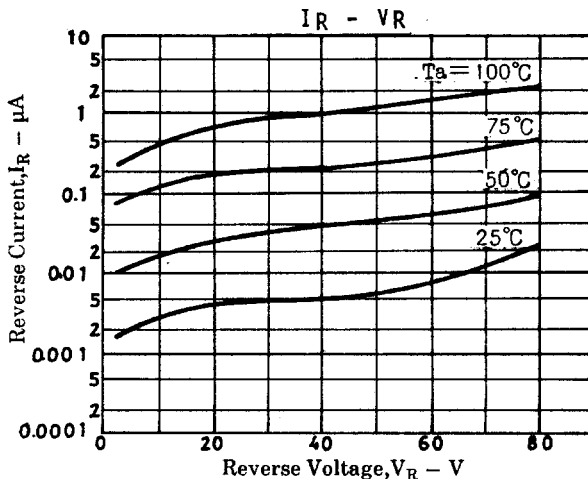
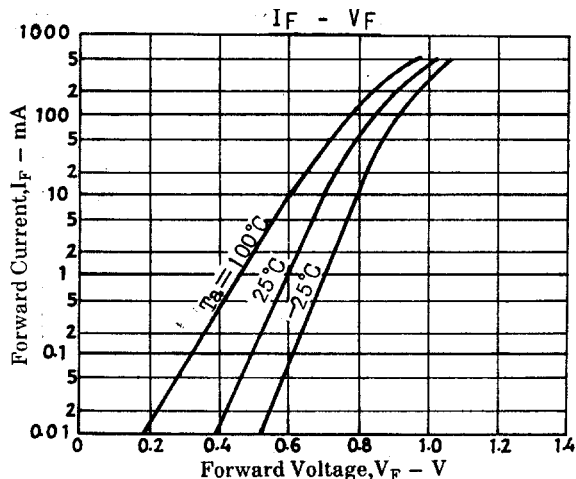
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Forward Voltage	$V_F$	$I_F=100\text{mA}$			1.2	V
Reverse Current	$I_{R1}$	$V_R=30\text{V}$			0.1	$\mu\text{A}$
	$I_{R2}$	At each $V_R$			0.5	$\mu\text{A}$
Interterminal Capacitance	C	$V_R=0\text{V}$ , $f=1\text{MHz}$			3	pF
Reverse Recovery Time	$t_{rr}$	$V_R=6\text{V}$ , $I_F=10\text{mA}$ , $R_L=50\Omega$			4	ns

#### Reverse Recovery Time ( $t_{rr}$ ) Test Circuit

Unit (resistance : $\Omega$ , capacitance :F)

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