

500mW Hermetically Sealed Glass Fast Switching Diodes

FEATURES

- Small hermetically sealed glass SMD package
- High switching speed: Max. 4 ns
- Continuous reverse voltage: Max. 75V
- Repetitive peak reverse voltage: Max. 75V
- Repetitive peak forward current: Max. 450 mA

MECHANICAL DATA

- Polarity: Indicated by black cathode band





SOD80C



Hermetically Sealed Glass

PARAMETER	SYMBOL	VALUE	UNIT
Repetitive Peak Reverse Voltage	V _{RRM}	75	V
Continuous Reverse Voltage	V _R	75	V
Continuous Forward Current Fig. 2, (Note 1) I _F	200	mA
Repetitive Peak Forward Current	I _{FRM}	450	mA
Non-Repetitive Peak Forward Surge Current			
Square Wave : T _J =25 [°] C Prior to Surge : See Fig. 4			
t=1µs	IFSM	4	A
t=1ms		1	
t=1s		0.5	
Total Power Dissipation $T_{amb}=25^{\circ}C$, (Note 1) P _{tot}	500	mW
Operating Junction Temperature	TJ	200	°C
Storage Temperature Range	T _{STG}	-65 to 200	°C

PA	SYMBOL	MIN	MAX	UNIT	
Forward Voltage	See Fig. 3 I _F =10mA	V _F	-	1.0	V
Reverse Leakage Current	V _R =20V See Fig. 5	1	-	25.0	nA
	V _R =20V T _j =150°C	'R	-	50.0	μA
Junction Capacitance	V _R =0 f=1.0MHz	CJ	-	4.0	pF
Reverse Recovery Time	(Note 2)	t _{rr}	-	4.0	ns
Forward Recovery Voltage	I _F =50 mA tr=20ns	V _{fr}	-	2.5	V

Note 1 : Device mounted on an FR4 printed-circuit board

Note 2 : Reverse recovery test conditions : I_F =10mA, I_R =60mA, R_L =100 Ω , I_{RR} =1m A



RATINGS AND CHARACTERISTICS CURVES

 $(T_A=25^{\circ}C \text{ unless otherwise noted})$









ORDER INFORMATION (EXAMPLE)

LL4148L LOG



- Green compound code Packing code
- Part no.

PACKAGE OUTLINE DIMENSION



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Мах
А	3.30	3.70	0.130	0.146
В	1.40	1.60	0.055	0.063
С	0.20	0.50	0.008	0.020

Unit (mm)

🖊 Тур.

1.25

2.00

2.50

5.00



Unit (inch)

Тур.

0.049

0.079

0.098

0.197

SUGGEST PAD LAYOUT







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