

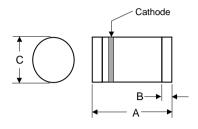
Features

* Fast switching diode in MiniMELF case especially suited for automatic surface mounting









LL-34							
DIM	INCHES		MM				
	MIN	MAX	MIN	MAX			
Α	0.134	0.142	3.40	3.60			
В	0.008	0.016	0.20	0.40			
С	0.055	0.059	1.40	1.50			

Maximum Ratings (T_A=25 °C unless otherwise noted)

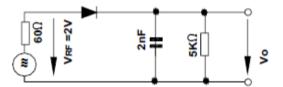
Parameter	Symbol	Value	Unit
Peak Reverse Voltage	Vrm	100	V
Reverse Voltage	Vr	75	V
Average Rectified Forward Current	lf(AV)	200	mA
Non-repetitive Peak Forward Surge Current at t = 1 s at t = 1 ms at t = 1 µs	lfsm	0.5 1 4	А
Power Dissipation	Ptot	500 ¹⁾	mW
Junction Temperature	Tj	175	°C
Storage Temperature Range	Tstg	- 65 to + 175	°C
1) Valid provided that electrodes are kept at ambient temperature.	•	•	

Version: 6.1 www.jgdsemi.com



Electrical Characteristics (T_A=25°C unless otherwise noted)

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage tested with 100 μA Pulses	V _{(BR)R}	100	-	V
Forward Voltage at I _F = 10 mA	VF	-	1	V
Leakage Current at $V_R = 20 \text{ V}$ at $V_R = 75 \text{ V}$ at $V_R = 75 \text{ V}$ at $V_R = 20 \text{ V}$, $T_j = 150 ^{\circ}\text{C}$	lr	- - -	25 5 50	nA μA μA
Capacitance at V _R = 0, f = 1 MHz	Ctot	-	4	pF
Voltage Rise when Switching ON tested with 50 mA Forward Pulses tp = 0.1 s, Rise Time < 30 ns, fp = 5 to 100 KHz	Vfr	-	2.5	V
Reverse Recovery Time at I _F = 10 mA to I _R = 1 mA, I _T = 0.1 x I _R , V_R = 6 V, R _L = 100 Ω	trr	-	4	ns
Thermal Resistance Junction to Ambient Air	RthA	-	0.35 ¹⁾	K/mW
Rectification Efficiency at f = 100 MHz, VRF = 2 V	ην	0.45	-	-



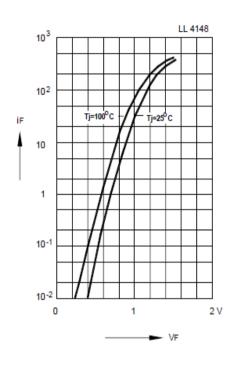
Rectification Efficiency Measurement Circuit

Version: 6.1 www.jgdsemi.com

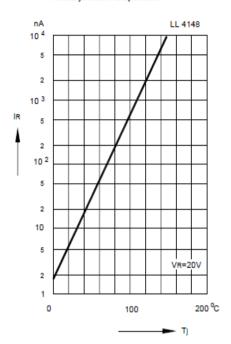


Ratings and Characteristic Curves

Forward characteristics



Leakage current versus junction temperature



400

400

100

25

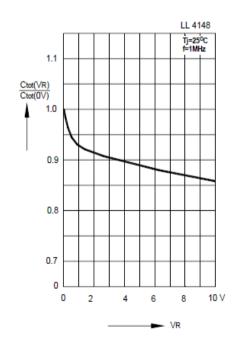
100

100

Ambient Temperature: Ta (°C)

Power Derating Ourve

Relative capacitance versus reverse voltage



Version: 6.1 www.jgdsemi.com



Ordering Information

Part No.	Package	Packing Code	Packing
LL4148	LL-34	R25	2500pcs/Reel

Disclaimer

Specifications of the products displayed herein are subject to change without notice. JGD or anyone on its behalf, assumes no responsibility or liability for any errors inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implied,to any intellectual property rights is granted by this document. Except as provided in JGD's terms and conditions of sale for such products, JGD assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of JGD products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or seling these products for use in such applications do so at their own risk and agree to fully indemnify JGD for any damages resulting from such improper use or sale.

Version: 6.1 www.jgdsemi.com