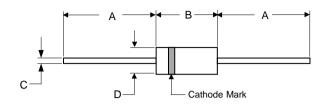


Features

- * High-speed switching
- * This diode is also available in MiniMELF case with the type designation LL4148









DO-34						
DIM	INCHES		MM			
	MIN	MAX	MIN	MAX		
Α	1.083		27.50			
В		0.114		2.90		
С		0.018		0.45		
D		0.075		1.90		

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

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V _{RM}	100	V
Reverse Voltage	VR	75	V
Average Rectified Forward Current	I F(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	P _{tot}	500 ¹⁾	mW
Junction Temperature	Tj	200	°C
Storage Temperature Range	Tstg	- 65 to + 200	°C

Note:1) Valid provided that leads at a distance of 8 mm from case are kept at ambient temperature.

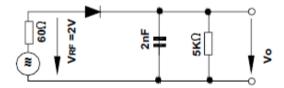
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Electrical Characteristics (TA=25°C unless otherwise noted)

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 100 \mu A$ at $I_R = 5 \mu A$	V(BR)R	100 75	-	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 $V_R = 20 \text{ V}$, $V_R = 20 \text{ V}$, $V_R = 150 \text{ C}$	lr	- - -	25 5 50	nΑ μΑ μΑ
Capacitance at VR = 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 IF = 10 mA to IR = 1 mA, Irr = 0.1 x IR, $VR = 6 V$, $RL = 100 \Omega$	trr	-	4	ns
Thermal Resistance Junction to Ambient Air	RthA	-	0.35 ¹⁾	K/mW
Rectification Efficiency at f = 100 MHz, V _{RF} = 2 V	ην	0.45	-	-

Note: 1) Valid provided that leads at a distance of 8 mm from case are kept at ambient temperature.

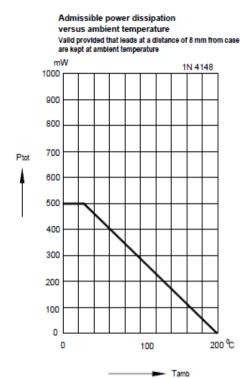


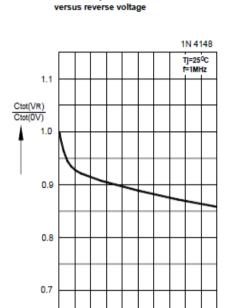
Rectification Efficiency Measurement Circuit

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Ratings and Characteristic Curves





10 V

► VR

0

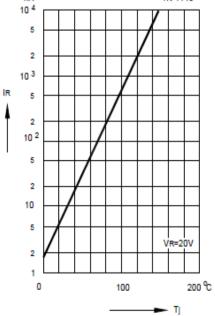
2

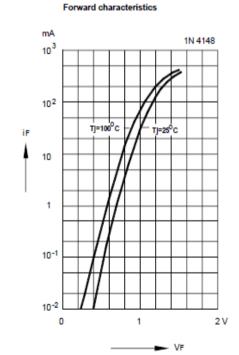
Relative capacitance

1N 4148 nΑ 10 4 2 10³

versus junction temperature

Leakage current





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Ordering Information

Part No.	Package	Packing Code	Packing
1N4148S	DO-34	A50	5000pcs/Ammo

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