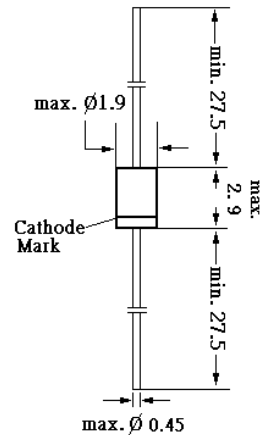


# 1N4148M

## SILICON EPITAXIAL PLANAR DIODE

### Fast switching diode



Glass case JEDEC DO-34

Dimensions in mm

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

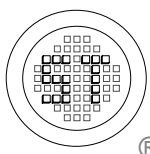
	Symbol	Value	Unit
Reverse Voltage	$V_R$	50	V
Peak Reverse Voltage	$V_{RM}$	60	V
Rectified Current (Average) Half Wave Rectification with Resist. Load at $T_{amb} = 25^\circ\text{C}$ and $f/50 \text{ Hz}$	$I_O$	130 <sup>1)</sup>	mA
Surge Forward Current at $t < 1\text{s}$ and $T_j = 25^\circ\text{C}$	$I_{FSM}$	500	mA
Power Dissipation	$P_{tot}$	400 <sup>1)</sup>	mW
Junction Temperature	$T_j$	200	$^\circ\text{C}$
Storage Temperature Range	$T_S$	-65 to +200	$^\circ\text{C}$

<sup>1)</sup> Valid provided that leads at a distance of 8 mm from case are kept at ambient temperature.

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

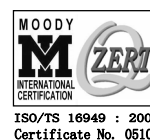
	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage at $I_F = 100\text{mA}$	$V_F$	-	-	1.1	V
Leakage Current at $V_R = 50\text{V}$	$I_R$	-	-	0.5	$\mu\text{A}$
Reverse Breakdown Voltage tested with $100\mu\text{A}$ Pulses	$V_{(BR)R}$	60	-	-	V
Capacitance at $V_F = V_R = 0$	$C_{tot}$	-	-	3	pF
Reverse Recovery Time from $I_F = 10\text{mA}$ to $I_R = 1\text{mA}$ , $V_R = 6\text{V}$ , $R_L = 100\Omega$	$t_{rr}$	-	-	4	ns

<sup>1)</sup> Valid provided that leads at a distance of 8 mm from case are kept at ambient temperature.



**SEMTECH ELECTRONICS LTD.**

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ISO/TS 16949 : 2002  
Certificate No. 05103



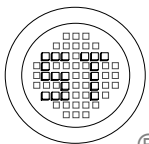
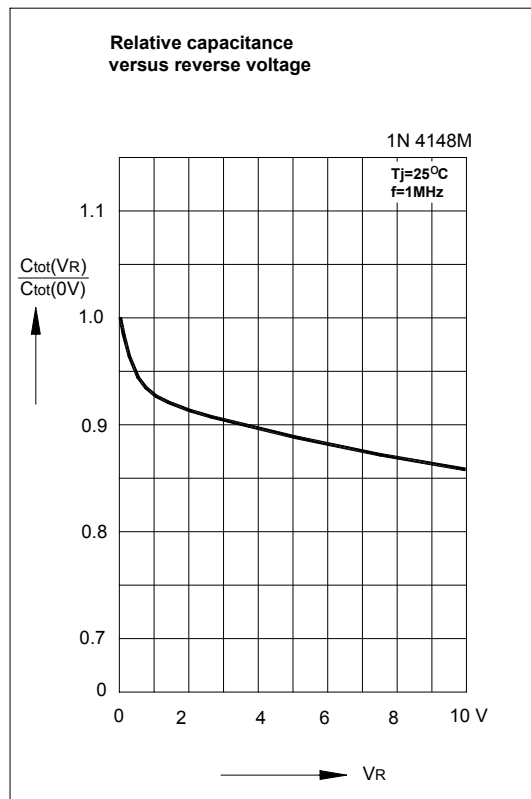
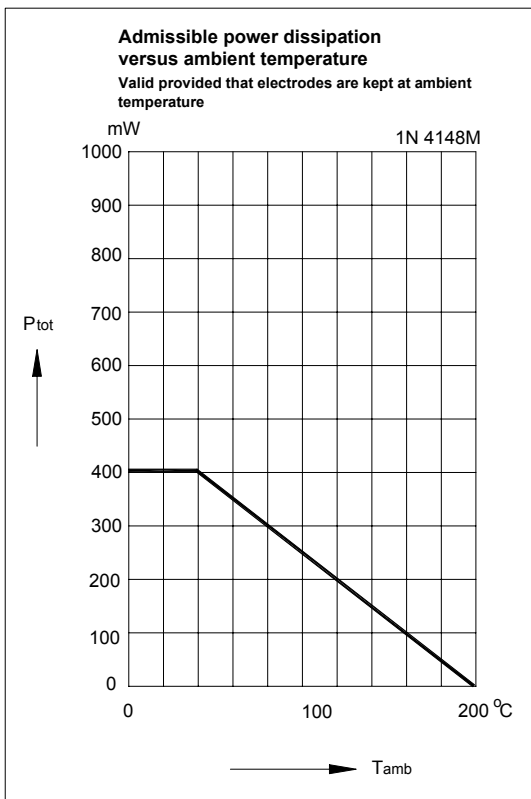
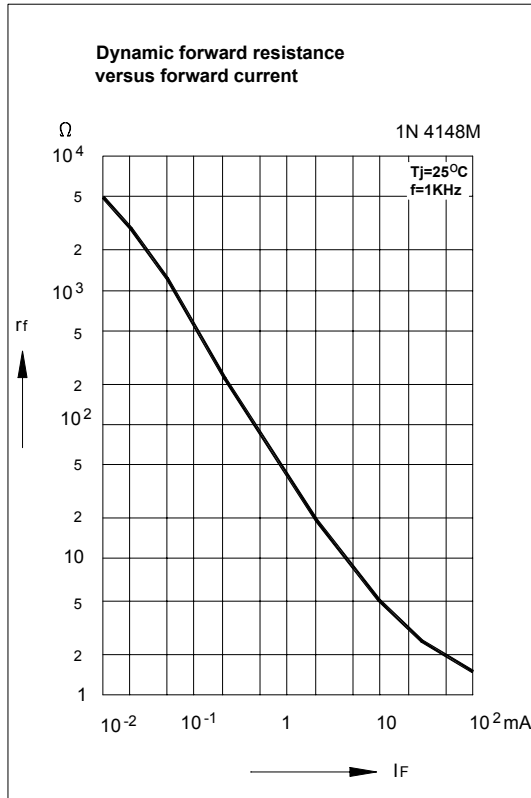
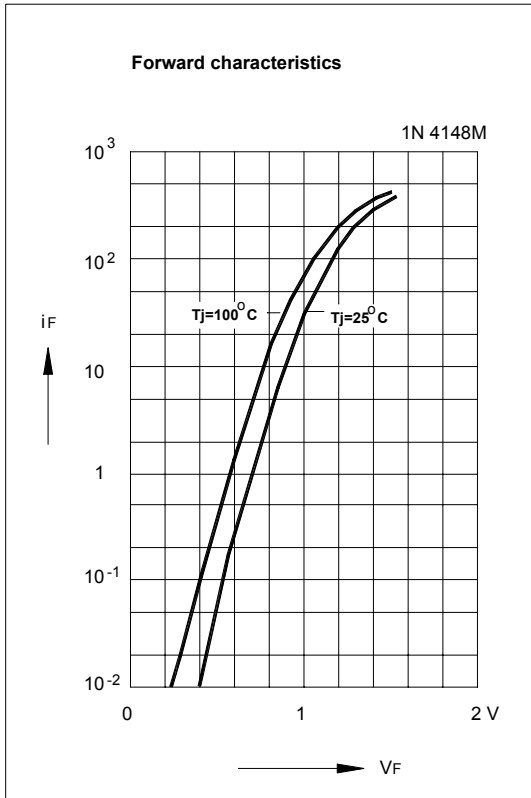
ISO 14001  
Certificate No. 7116



ISO 9001 : 2000  
Certificate No. 550-159-04-002-04

Dated : 31/12/2002

# 1N4148M



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