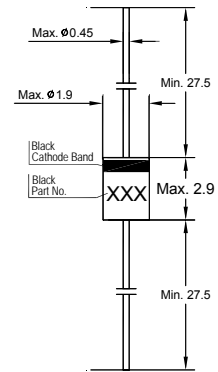


1N4148M

SILICON EPITAXIAL PLANAR DIODE

Fast switching diode



Glass Case DO-34
Dimensions in mm

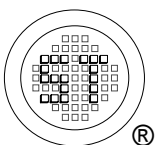
Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

Parameter	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 $f \geq 50\text{ Hz}$	I_O	130	mA
Surge Forward Current at $t < 1\text{ s}$	I_{FSM}	500	mA
Power Dissipation	P_{tot}	400 ¹⁾	mW
Junction Temperature	T_j	200	$^\circ\text{C}$
Storage Temperature Range	T_S	- 65 to + 200	$^\circ\text{C}$

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

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

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at $I_F = 100\text{ mA}$	V_F	-	1.1	V
Reverse Leakage Current at $V_R = 50\text{ V}$	I_R	-	0.5	μA
Reverse Breakdown Voltage tested with 100 μA 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

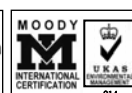


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ISO/TS 16949 : 2002
Certificate No. 05103



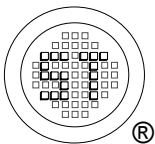
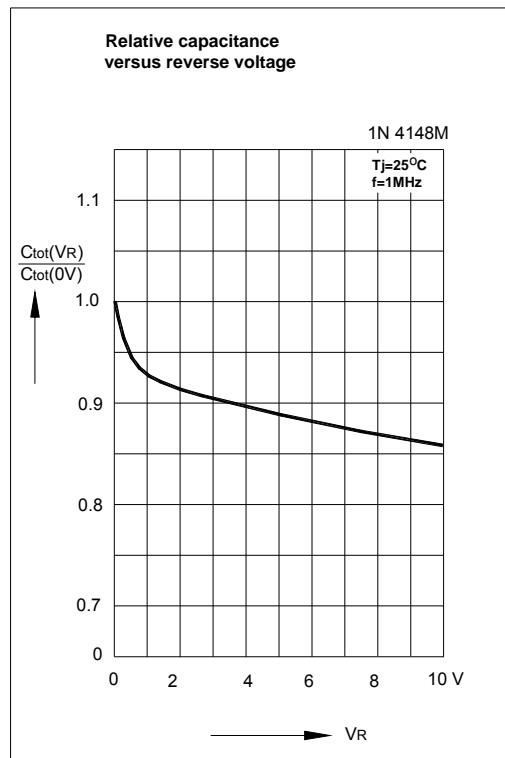
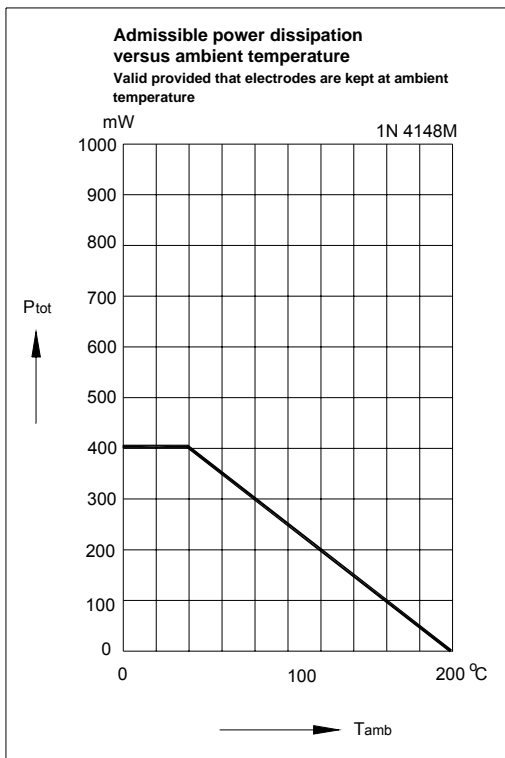
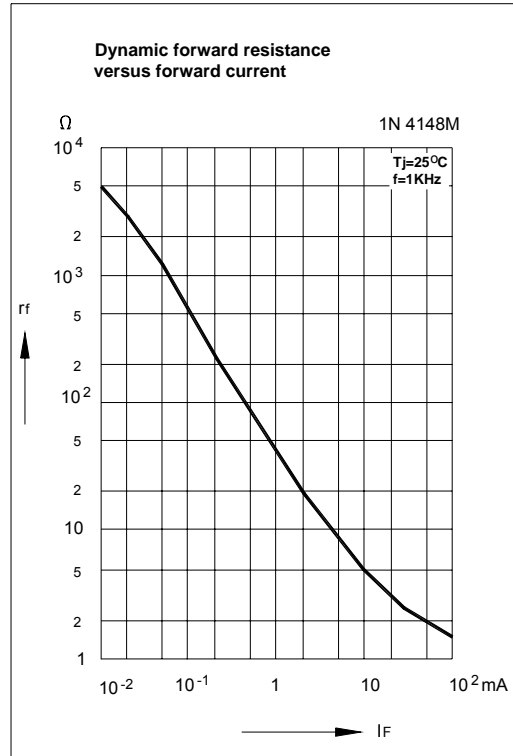
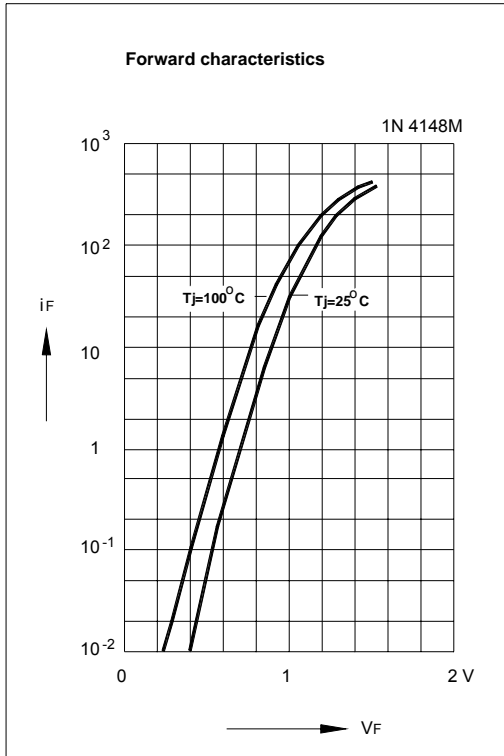
ISO 14001:2004
Certificate No. 7116



ISO 9001:2000
Certificate No. 0506088

Dated : 23/06/2007

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