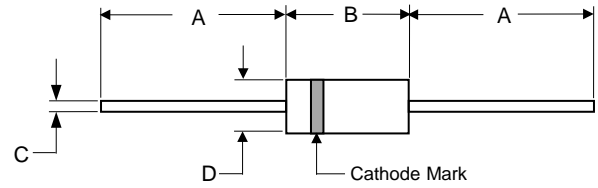


Features

* High-speed switching



RoHS
COMPLIANT



DO-34				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	1.083	---	27.50	---
B	---	0.114	---	2.90
C	---	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}	60	V
Reverse Voltage	V_R	50	V
Average Rectified Forward Current	$I_{F(AV)}$	130	mA
Surge Forward Current at $t < 1$ s	I_{FSM}	500	mA
Power Dissipation	P_{tot}	400 ¹⁾	mW
Junction Temperature	T_j	200	°C
Storage Temperature Range	T_{stg}	- 65 to + 200	°C

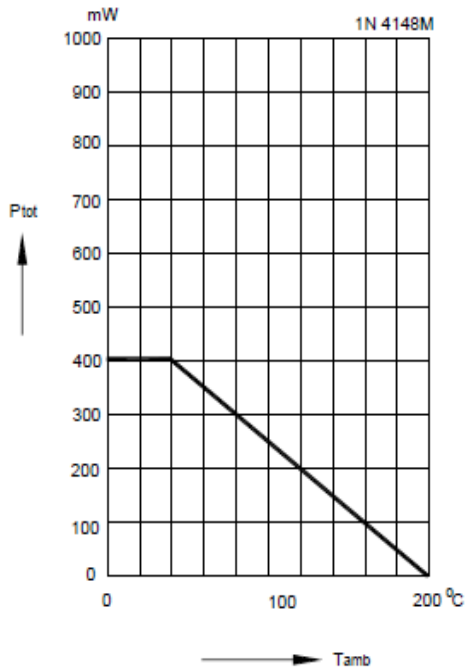
Note: 1) Valid provided that leads at a distance of 8 mm from case are kept at ambient temperature.

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

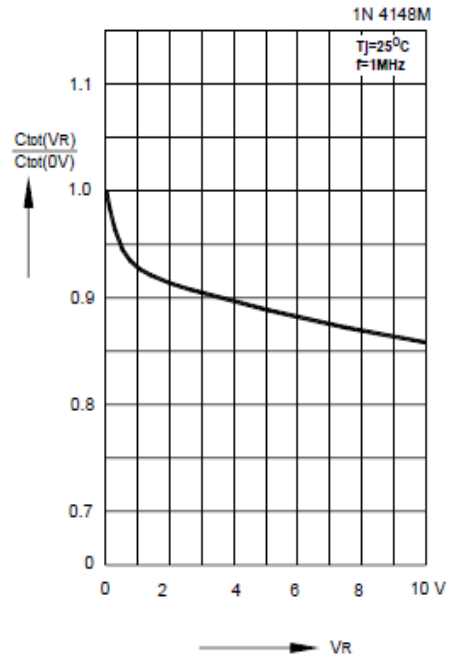
Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 100 \mu A$	$V_{(BR)R}$	60	-	V
Forward Voltage at $I_F = 100$ mA	V_F	-	1.1	V
Reverse Leakage Current at $V_R = 50$ V	I_R	-	0.5	μA
Capacitance at $V_R = 0$, $f = 1$ MHz	C_{tot}	-	3	pF
Reverse Recovery Time at $I_F = 10$ mA to $I_R = 1$ mA, $I_{rr} = 0.1 \times I_R$, $V_R = 6$ V, $R_L = 100 \Omega$	t_{rr}	-	4	ns

Ratings and Characteristic Curves

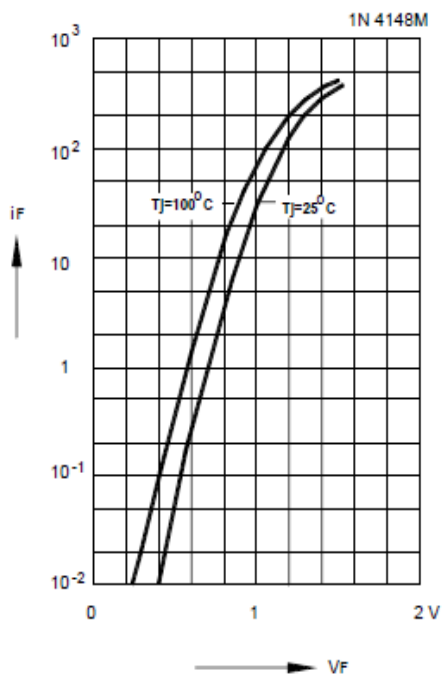
Admissible power dissipation versus ambient temperature
Valid provided that electrodes are kept at ambient temperature



Relative capacitance versus reverse voltage



Forward characteristics





1N4148M

Silicon Epitaxial Planar Switching Diode

Ordering Information

Part No.	Package	Packing Code	Packing
1N4148M	DO-34	A50	5000pcs/Ammo

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