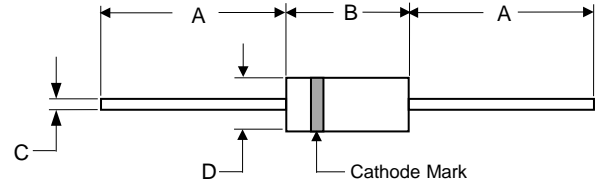


### Features

\* 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<sub>A</sub>=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V <sub>RM</sub>	60	V
Reverse Voltage	V <sub>R</sub>	50	V
Average Rectified Forward Current	I <sub>F(AV)</sub>	130	mA
Surge Forward Current at t < 1 s	I <sub>FSM</sub>	500	mA
Power Dissipation	P <sub>tot</sub>	400 <sup>1)</sup>	mW
Junction Temperature	T <sub>j</sub>	200	°C
Storage Temperature Range	T <sub>stg</sub>	- 65 to + 200	°C

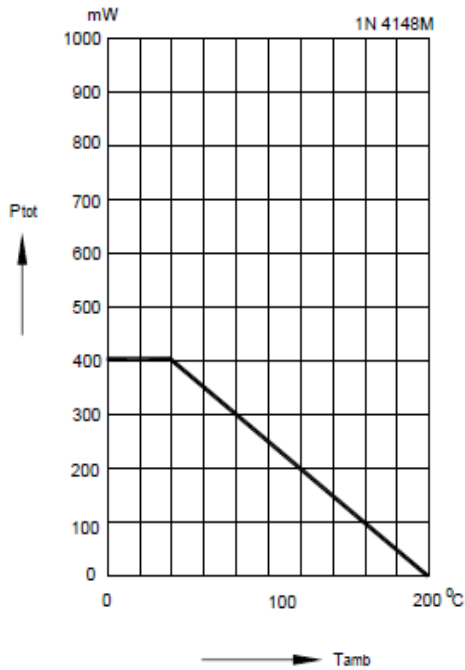
Note: 1) Valid provided that leads at a distance of 8 mm from case are kept at ambient temperature.

### Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

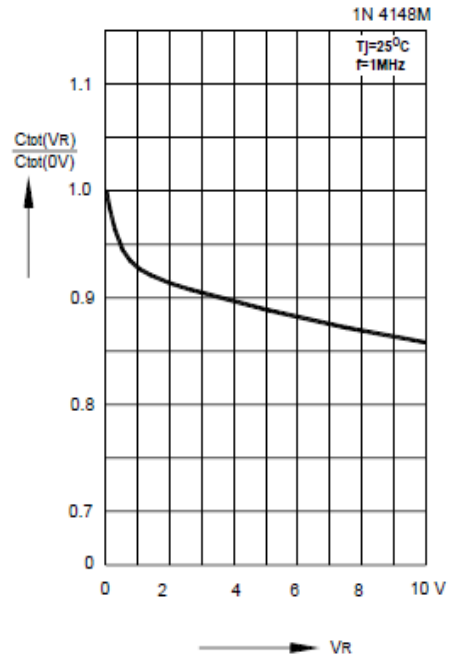
Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at I <sub>R</sub> = 100 μA	V <sub>(BR)R</sub>	60	-	V
Forward Voltage at I <sub>F</sub> = 100 mA	V <sub>F</sub>	-	1.1	V
Reverse Leakage Current at V <sub>R</sub> = 50 V	I <sub>R</sub>	-	0.5	μA
Capacitance at V <sub>R</sub> = 0, f = 1 MHz	C <sub>tot</sub>	-	3	pF
Reverse Recovery Time at I <sub>F</sub> = 10 mA to I <sub>R</sub> = 1 mA, I <sub>rr</sub> = 0.1 x I <sub>R</sub> , V <sub>R</sub> = 6 V, R <sub>L</sub> = 100 Ω	t <sub>rr</sub>	-	4	ns

### Ratings and Characteristic Curves

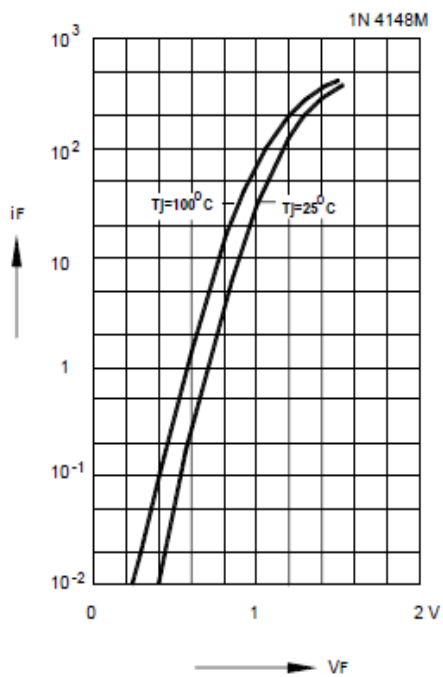
**Admissible power dissipation versus ambient temperature**  
Valid provided that electrodes are kept at ambient temperature



**Relative capacitance versus reverse voltage**



**Forward characteristics**





**1N4148M**  
***Silicon Epitaxial Planar Switching Diode***

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**Ordering Information**

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

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