

## DO-35 Glass Switching Diode

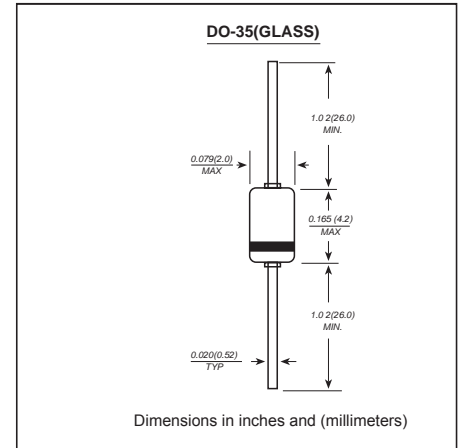
**VOLTAGE RANGE: 75V**  
**PEAK PULSE POWER: 500mW**

### Features

- Fast Switching Device (TRR <4.0 nS)
- Power Dissipation of 500mW
- High Stability and High Reliability
- Low reverse leakage

### Mechanical Data

- Case: DO-35 Glass Case
- Polarity: Color band denotes cathode end
- Mounting Position: Any



## MAXIMUM RATINGS AND CHARACTERISTICS

Ratings at 25 C ambient temperature unless otherwise specified

Parameters	Symbol	Value	Unit
Reverse Voltage	V <sub>R</sub>	75	V
Peak Reverse Voltage	V <sub>RM</sub>	100	V
Power Dissipation	P <sub>d</sub>	500	mW
Operating junction temperature	T <sub>j</sub>	175	°C
Storage temperature range	T <sub>s</sub>	-65+200	°C
Working Inverse Voltage	W <sub>IV</sub>	75	V
Average Rectified Current	I <sub>o</sub>	150	mA
Non-repetitive Peak Forward Current @ t<1s and T <sub>j</sub> =25°C	I <sub>FM</sub>	450	mA

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

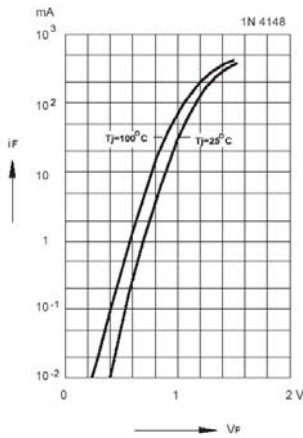
## Electrical Specification (T<sub>A</sub>=25°C unless otherwise specified)

Symbols	Parameter	Test Condition	Limits		Unit
			Min	Max	
BV	Breakdown Voltage	IR=100uA	100		V
		IR=5uA	75		
IR	Reverse Leakage Current	VR=20V	---	25	nA
		VR=75	---	5	uA
VF	Forward Voltage	1N4448/1N914B IF=5mA	0.62	0.72	V
		1N4148 IF=10mA	---	1	
		1N4448/1N914B IF=100mA	---	1	
TRR	Reverse Recovery Time	IF= 10mA, IR=1.0mA RL=100Ω IRR=1mA	---	4	nS
C	Capacitance	VR=0V, f=1MHZ	---	4	pF

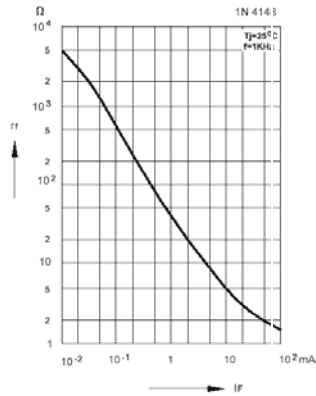
# RATINGS AND CHARACTERISTIC CURVES

## Typical Characteristics

Forward characteristics

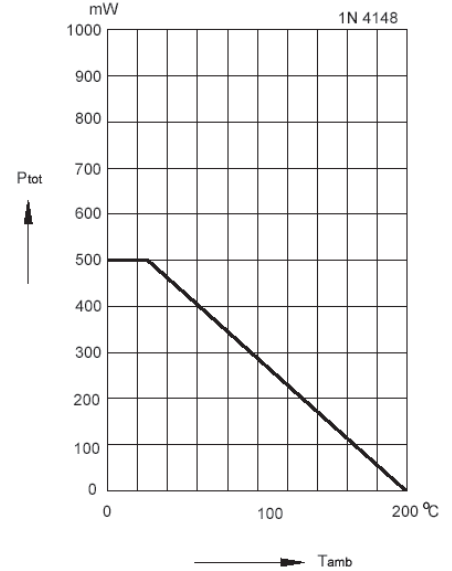


Dynamic forward resistance versus forward current

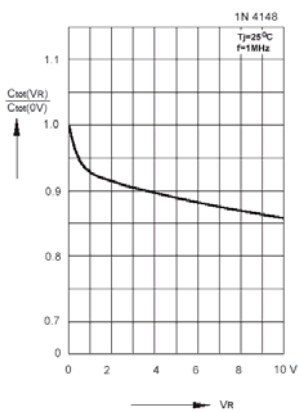


Admissible power dissipation versus ambient temperature

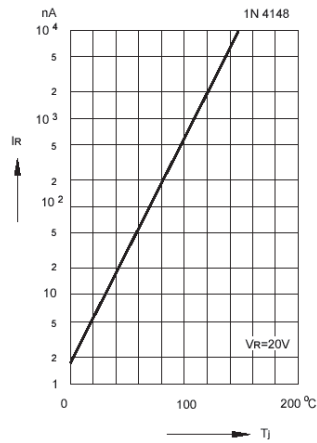
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Relative capacitance versus reverse voltage



Leakage current versus junction temperature



Admissible repetitive peak forward current versus pulse duration Valid provided that

leads at a distance of 8 mm from case are kept at ambient temperature

