Fast Switching Diode

1N4148/1N4448

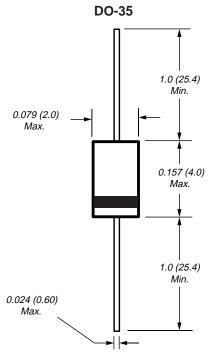
High Speed

Features

- Fast Switching Speed
- General Purpose Rectification
- Silicon Epitaxial Planar Construction

Mechanical Data

- Case: DO-35
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.13 grams (approx.)



Dimensions in inches and (millimeters)

Maximum Ratings @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	1N4148	1N4448	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	100		V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	75		v
RMS Reverse Voltage	V _{R(RMS)}	53		V
Forward Continuous Current (Note 1)	I _{FM}	300	500	mA
Average Rectified Output Current (Note 1)	lo	150		mA
Non-Repetitive Peak Forward Surge Current @ t = 1.0s @ t = 1.0μ s	I _{FSM}	1.0 2.0		A
Power Dissipation (Note 1) Derate Above 25°C	Pd	500 1.68		mW mW/°C
Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{ ext{ heta}JA}$	300		K/W
Operating and Storage Temperature Range	T_j , T_{STG}	-65 to +175		°C

Electrical Characteristics @ $T_A = 25^{\circ}C$ unless otherwise specified

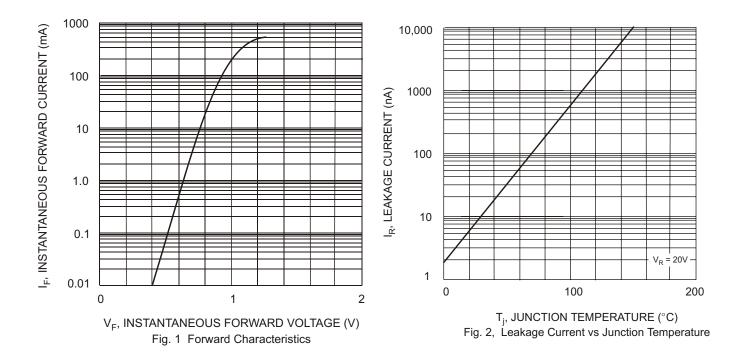
Characteristic	Symbol	Min	Max	Unit	Test Condition
Maximum Forward Voltage 1N414 1N444 1N444	B V _{FM}	0.62	1.0 0.72 1.0	v	$I_F = 10mA$ $I_F = 5.0mA$ $I_F = 100mA$
Maximum Peak Reverse Current	I _{RM}	_	5.0 50 30 25	μΑ μΑ μΑ nA	$ \begin{array}{l} V_{R}=75V \\ V_{R}=70V, \ T_{j}=150^{\circ}C \\ V_{R}=20V, \ T_{j}=150^{\circ}C \\ V_{R}=20V \end{array} $
Capacitance	Cj	_	4.0	pF	V _R = 0, f = 1.0MHz
Reverse Recovery Time	t _{rr}	_	4.0	ns	$I_{F} = 10mA \text{ to } I_{R} = 1.0mA$ $V_{R} = 6.0V, R_{L} = 100\Omega$

Notes: 1. Valid provided that device terminals are kept at ambient temperature.









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