



Features

- Fast Switching Speed
- General Purpose Rectification
- Silicon Epitaxial Planar Construction
- Lead Free Finish, RoHS Compliant (Note 2)

Mechanical Data

Case: DO-35

Case Material: Glass

Moisture Sensitivity: Level 1 per J-STD-020D

• Leads: Solderable per MIL-STD-202, Method 208

 Terminals: Finish — Sn96.5Ag3.5. Solderable per MIL-STD-202, Method 208

Polarity: Cathode Band

Marking: Type Number

Ordering Information: See Page 2

Weight: 0.13 grams (approximate)

Maximum Ratings @T_A = 25°C unless otherwise specified

Characteristic		Symbol	1N4148	1N4448	Unit
Non-Repetitive Peak Reverse Voltage		V_{RM}	10	00	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V _{RM} V _{RWM} V _R	7	'5	V
RMS Reverse Voltage		$V_{R(RMS)}$	5	i3	V
Forward Continuous Current (Note 1)		I _{FM}	300	500	mA
Average Rectified Output Current (Note 1)		lo	15	50	mA
Non-Repetitive Peak Forward Surge Current	@ t = 1.0s @ t = 1.0μs	I _{FSM}	=	.0 .0	А

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Power Dissipation (Note 1)	р	500	mW
Derate Above 25°C	P _D	1.68	mW/°C
Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{ heta JA}$	300	°C/W
Operating and Storage Temperature Range	T_J , T_{STG}	-65 to +175	°C

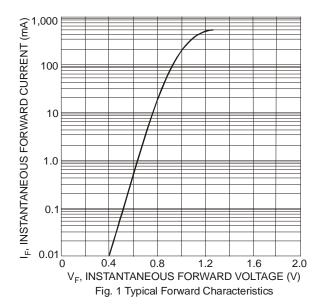
Electrical Characteristics @T_A = 25°C unless otherwise specified

Characteristic		Symbol	Min	Max	Unit	Test Condition
Maximum Forward Voltage	1N4148 1N4448 1N4448	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	$V_R = 75V$ $V_R = 70V$, $T_J = 150$ °C $V_R = 20V$, $T_J = 150$ °C $V_R = 20V$
Total Capacitance		C _T	_	4.0	pF	$V_R = 0$, $f = 1.0MHz$
Reverse Recovery Time		t _{rr}	_	4.0	ns	I_F = 10mA to I_R =1.0mA V_R = 6.0V, R_L = 100 Ω

Notes:

- 1. Valid provided that device terminals are kept at ambient temperature.
- EC Directive 2002/95/EC (RoHS) revision 13.2.2003. Glass and high temperature solder exemptions applied where applicable, see EU Directive Annex Notes 5 and 7.





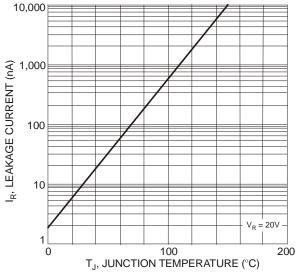


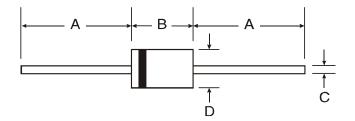
Fig. 2 Leakage Current vs. Junction Temperature

Ordering Information (Note 3)

Part Number	Case	Packaging
1N4148-A	DO-35	10K/Ammo Pack
1N4148-T	DO-35	10K/Tape & Reel, 13-inch
1N4448-A	DO-35	10K/Ammo Pack
1N4448-T	DO-35	10K/Tape & Reel, 13-inch

Notes: 3. For packaging details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

Package Outline Dimensions



DO-35					
Dim	Min	Max			
Α	25.40	_			
В	_	4.00			
С	_	0.60			
D	_	2.00			
All Dimensions in mm					

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