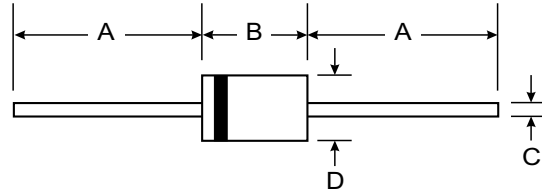


Features

- Fast Switching Speed
- High Reliability
- High Conductance
- For General Purpose Switching Applications



Mechanical Data

- Case: DO-35, Glass
- Terminals: Solderable per MIL-STD-202, Method 208
- Marking: Type Number
- Weight: 0.013 grams (approx.)

DO-35		
Dim	Min	Max
A	25.40	—
B	—	4.00
C	—	0.60
D	—	2.00
All Dimensions in mm		

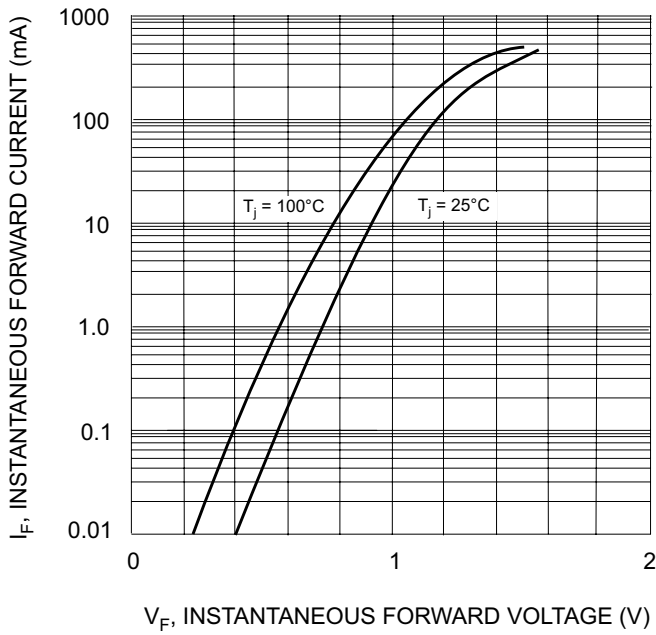
Maximum Ratings @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Value	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}	1N914 1N914A/B 150 300	mA
Average Rectified Output Current (Note 1)	I _O	1N914 1N914A/B 75 200	mA
Non-Repetitive Peak Forward Surge Current @ t = 1.0s 1N914 @ t = 1.0μs 1N914A/B @ t = 1.0μs	I _{FSM}	1.0 1.0 4.0	A
Power Dissipation (Note 1) Derate Above 25°C	P _d	500 1.68	mW mW/°C
Thermal Resistance, Junction to Ambient Air (Note 1)	R _{θJA}	300	K/W
Operating and Storage Temperature Range	T _j , T _{STG}	-65 to +175	°C

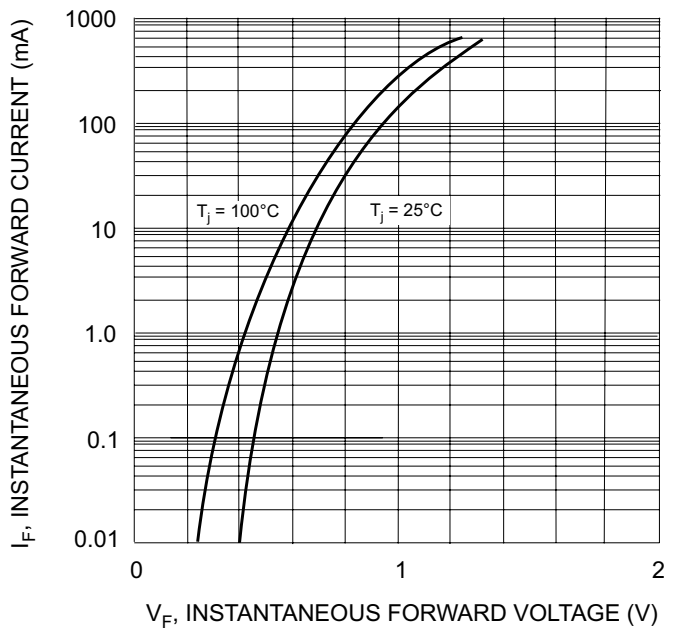
Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Min	Max	Unit	Test Condition
Maximum Forward Voltage	V _{FM}	0.62	0.72	V	I _F = 5.0mA I _F = 100mA I _F = 10mA I _F = 20mA
Maximum Peak Reverse Current	I _{RM}	—	5.0 50 25	μA μA nA	V _R = 75V V _R = 20V, T _j = 150°C V _R = 20V
Capacitance	C _j	—	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 = 100Ω

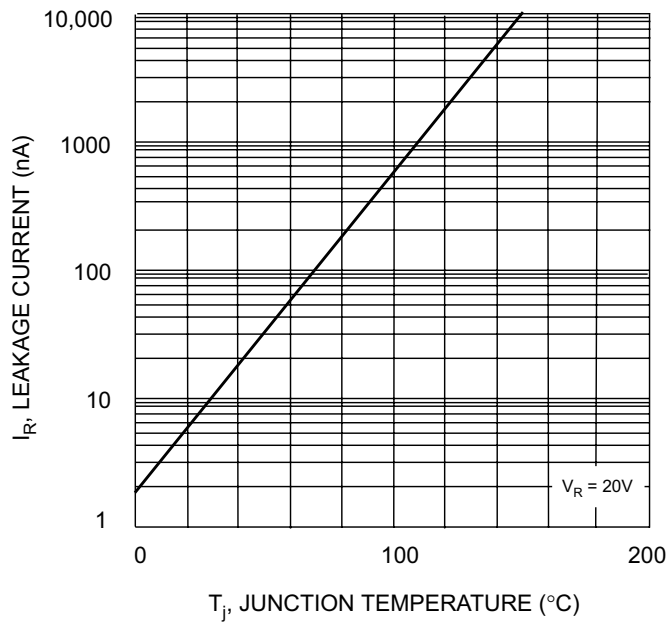
Notes: 1. Valid provided that lead are kept at ambient temperature at a distance of 8.0mm.



V_F , INSTANTANEOUS FORWARD VOLTAGE (V)
Fig. 1 Forward Characteristics 1N914, 1N914A



V_F , INSTANTANEOUS FORWARD VOLTAGE (V)
Fig. 2 Forward Characteristics 1N914B



T_j , JUNCTION TEMPERATURE ($^\circ\text{C}$)
Fig. 3 Leakage Current vs Junction Temperature