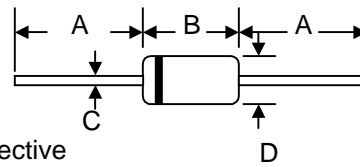
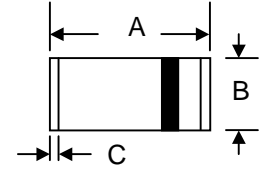


Features

- Fast Switching Speed
- Glass Package Version for High Reliability
- High Conductance
- Available in Both Through-Hole and Surface Mount Versions
- Green Products in Compliance with the RoHS Directive



1N914-G



DL914-G

Mechanical Data

- Case: DO-35, MiniMELF
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: DO-35 0.13 grams
MiniMELF 0.05 grams
- Marking: Cathode Band Only

DO-35				
Dim	Min	Max	Min	Max
A	25.40	—	1.000	—
B	—	4.00	—	0.157
C	—	0.60	—	0.024
D	—	2.00	—	0.079
	in mm		In inch	

MiniMELF				
Dim	Min	Max	Min	Max
A	3.30	3.70	0.130	0.146
B	1.30	1.60	0.051	0.063
C	0.28	0.50	0.011	0.020
	In mm		In inch	

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 _{VRM} V _R	75	V
RMS Reverse Voltage	V _{R(RMS)}	53	V
Forward Continuous Current (Note 1)	I _{FM}	300	mA
Rectified Current (Average), Half Wave Rectification with Resistive Load and f ≥ 50MHz (Note 1)	I _o	150	mA
Non-Repetitive Peak Forward Surge Current @ t = 1.0s @ t = 1.0μs	I _{FSM}	1.0 2.0	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 @ $T_A=25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	Min	Max	Unit	Test Condition
Maximum Forward Voltage	V_{FM}	—	1.0	V	$I_F = 10\text{mA}$
Maximum Peak Reverse Current	I_{RM}	—	5.0 50 30 25	μA μA μA nA	$V_R = 75\text{V}$ $V_R = 70\text{V}, T_j = 150^\circ\text{C}$ $V_R = 20\text{V}, T_j = 150^\circ\text{C}$ $V_R = 20\text{V}$
Capacitance	C_j	—	4.0	pF	$V_R = 0, f = 1.0\text{MHz}$
Reverse Recovery Time	t_{rr}	—	4.0	ns	$I_F = 10\text{mA}$ to $I_R = 1.0\text{mA}$ $V_R = 6.0\text{V}, R_L = 100\Omega$

Note: 1. Diode on Ceramic Substrate 10mm x 8mm x 0.7mm.

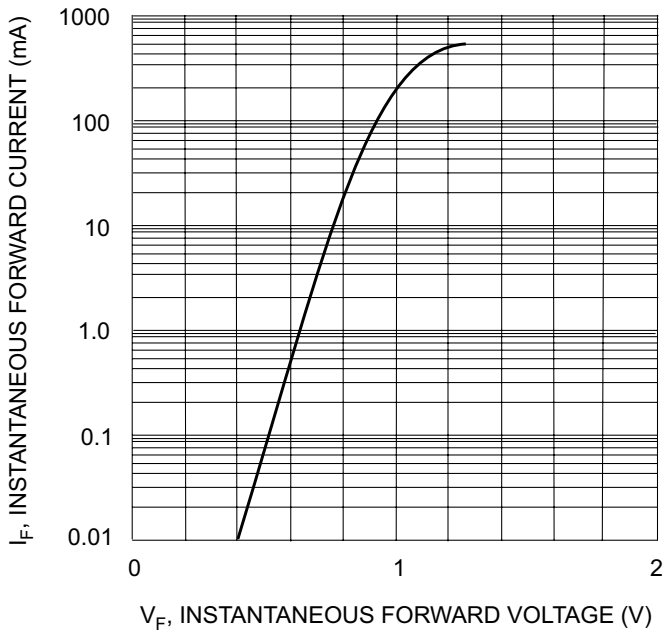


Fig. 1 Forward Characteristics

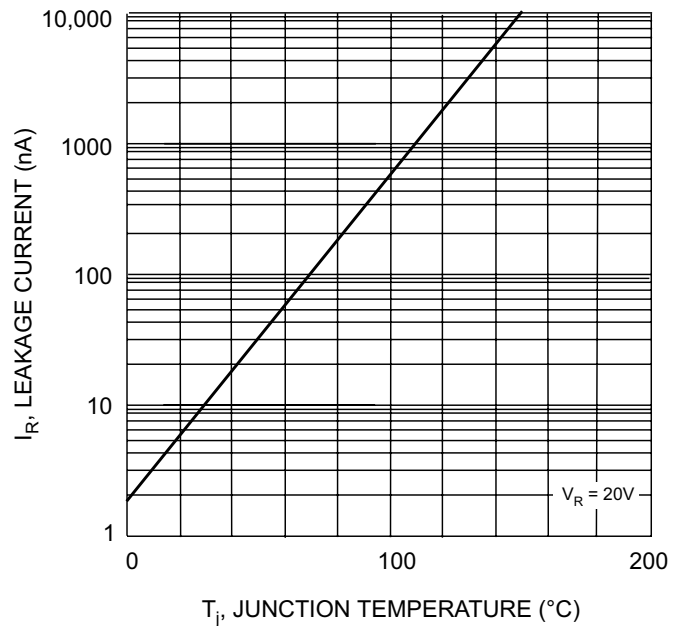


Fig. 2 Leakage Current vs Junction Temperature

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