

Green Products

1N914 /DL914 FAST SWITCHING DIODE

Features:

- Fast Switching Speed
- Glass Package Version for High Reliability
- High Conductance
- Available in Both Through-Hole and Surface Mount Versions
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Mechanical Data:

Case: DO-35, DL-35

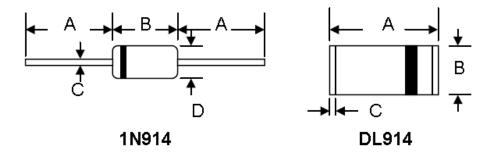
• Terminals: Plated leads Solderable per MIL-STD-202, Method 208

Polarity: Cathode BandWeight: DO-35 0.13 grams

DL-35 0.05 grams

Marking: Part Name, SSG and Marking code for date code

Mechanical Dimensions: In mm/Inches



DO-35					
Dim	Min	Max	Min	Max	
Α	25.40	_	1.000	_	
В	_	4.00	_	0.157	
С	_	0.60	— 0.02		
D	_	2.00	_	0.079	
	in mm		In inch		

MiniMELF					
Dim	Min	Max	Min	Max	
Α	3.30	3.70	0.130	0.146	
В	1.30	1.60	0.051	0.063	
С	0.28	0.50	0.011	0.020	
	In mm		In inch		



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Maximum Ratings @T_A=25°C unless otherwise specified

Characteristic	Symbol	Limits	Unit
Non- Repetitive Peak Reverse Voltage	V_{RM}	100	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$egin{array}{c} oldsymbol{V_{RMM}} \ oldsymbol{V_{R}} \end{array}$	75	V
RMS Reverse Voltage	$V_{R(RMS)}$	53	V
Forward Current	I _F	300	mA
Rectified Current(Average), Half Wave Rectification with Resistive Load and f≥50MHz (Note 1)	Io	150	mA
Non-Repetitive Peak Forward Surge Current @t=1.0s @t=1.0µs	I _{FSM}	1.0 2.0	А
Power Dissipation Derate Above 25°C	P_{D}	500 1.68	mW mW/°C
Typical Thermal Resistance, Junction to Ambient Air	$R_{ heta JA}$	300	°C/W
Junction and Storage Temperature Range	T_J , T_{STG}	-65 to +175	°C

Electrical Characteristics @T_A=25°C unless otherwise specified

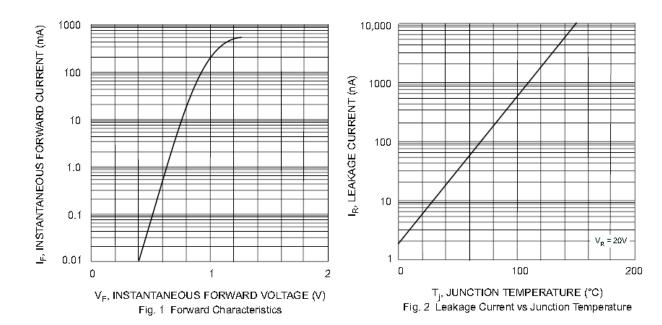
Characteristic	Symbol	Min	Max	Unit	Test Condition
Forward Voltage	V_{FM}	-	1.0	V	@I _F =10mA
Reverse Leakage Current	I _{RM}	-	5.0 50 30 25	uA uA uA nA	@V _R =75V @V _R =70V, T _J =150°C @V _R =20V, T _J =150°C @V _R =20V
Capacitance	Ст	-	4	pF	V _R =0V, f=1.0MHz
Reverse Recovery Time	t _{rr}	-	4	ns	I_F =10mA to I_R =1.0mA, V_R =6V, R_L =100 Ω

Note: 1. Diode on Substrate substrate 10×8×0.7mm

[•] http://www.smc-diodes.com - sales@ smc-diodes.com •



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