



FUKUCOM COMPANY LTD.

福 靈 有 限 公 司

FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,
KWUN TONG, KOWLOON, HONG KONG.

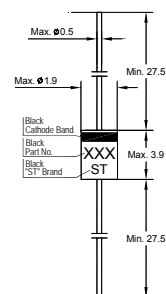
TEL: 852-2790 0314 FAX: 852-2790 0206

1N914, 1N914A, 1N914B

FAST SWITCHING DIODES

Features

- Fast Switching Speed
- High Reliability



Glass Case DO-35
Dimensions in mm

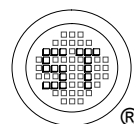
Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	100	V
Peak Repetitive Reverse Voltage	V_{RRM}	75	V
Working Peak Reverse Voltage	V_{RWM}		
DC Blocking Voltage	V_R		
RMS Reverse Voltage	$V_{R(RMS)}$	53	V
Average Rectified Output Current ¹⁾	1N914 1N914A / B	75 200	mA
Forward Continuous Current ¹⁾	1N914 1N914A / B	150 300	mA
Non-Repetitive Peak Forward Surge Current	at $t = 1\text{ s}$ 1N914 at $t = 1\text{ }\mu\text{s}$ 1N914A / B at $t = 1\text{ }\mu\text{s}$	1 1 4	A
Power Dissipation ¹⁾	P_{tot}	500	mW
Thermal Resistance, Junction to Ambient Air ¹⁾	$R_{\theta JA}$	300	K/W
Operating and Storage Temperature Range	T_j, T_s	- 65 to + 175	$^\circ\text{C}$

Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Min.	Max.	Unit		
Forward Voltage	V_F	-	-	V		
at $I_F = 5\text{ mA}$					0.62	0.72
at $I_F = 100\text{ mA}$					-	1
at $I_F = 10\text{ mA}$					-	1
Reverse Current	I_R	-	-	nA μA μA		
at $V_R = 20\text{ V}$					25	
at $V_R = 75\text{ V}$					5	
Diode Capacitance	C_j	-	4	pF		
Reverse Recovery Time	t_{rr}	-	4	ns		
at $I_F = 10\text{ mA}$ to $I_R = 1\text{ mA}$, $V_R = 6\text{ V}$, $R_L = 100\text{ }\Omega$						

¹⁾ Valid provided that lead are kept at ambient temperature at a distance of 8 mm.



Dated : 13/06/2007