

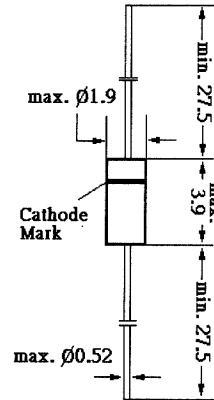
FAST SWITCHING DIODES

Features

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

Mechanical Data

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



Glass case JEDEC DO-35

Dimensions in mm

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

Characteristic	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	
Forward Continuous Current (Note 1)	I_{FM}	1N914	150	mA
		1N914A / B	300	
Average Rectified Output Current (Note 1)	I_O	1N914	75	mA
		1N914A / B	200	
Non-Repetitive Peak Forward Surge Current @ $t=1\text{s}$	I_{FSM}	1N914 @ $t=1\mu\text{s}$	1	A
		1N914A / B @ $t=1\mu\text{s}$	4	
Power Dissipation (Note 1)	P_d	500	mW	
Derate Above 25°C		1.68	mW/ $^\circ\text{C}$	
Thermal Resistance, Junction to Ambient Air (Note 1)	R_{YJA}	300	K/W	
Operating and Storage Temperature Range	T_j, T_{STG}	-65 to +175	$^\circ\text{C}$	

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

Characteristic	Symbol	Min.	Max.	Unit	
Forward Voltage	V_F	-	at $I_F=5\text{mA}$	0.62	V
			at $I_F=100\text{mA}$	0.72	
			at $I_F=10\text{mA}$	1	
			at $I_F=20\text{mA}$	1	
Peak Reverse Current	I_R	-	at $V_R=75\text{V}$	5	μA
			at $V_R=20\text{V}, T_A=150^\circ\text{C}$	50	μA
			at $V_R=20\text{V}$	25	nA
Diode Capacitance	C_o	-	4	pF	
Reverse Recovery Time	T_{RR}	-	4	nS	
at $I_F=10\text{mA}$ to $I_R=1\text{mA}$, $V_R=6\text{V}$, $R_L=100\Omega$					

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