

1N914W

PRV : 100 Volts
Io : 200 mA

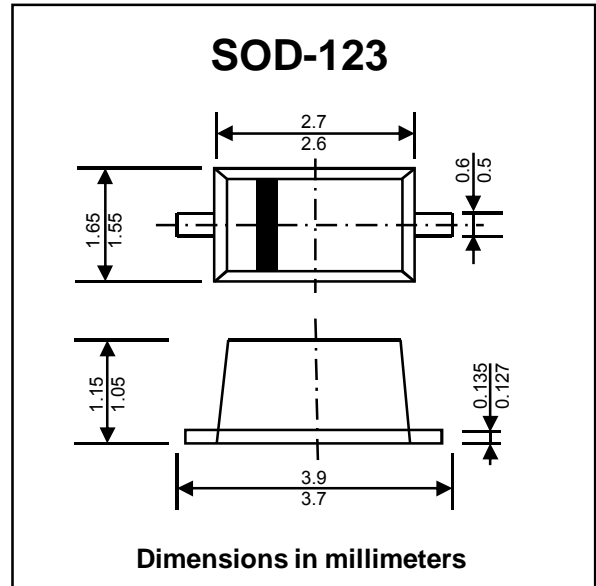
FEATURES :

- * Fast switching diodes.
- * Ultra-Small Surface Mount Package
- * For General Purpose Switching Applications
- * High Conductance
- * Pb / RoHS Free

MECHANICAL DATA :

- * Case : SOD-123 plastic Case
- * Weight : approx. 0.01 g
- * Marking Code : " WJ "

SMALL SIGNAL DIODE



MAXIMUM RATINGS AND THERMAL CHARACTERISTICS (Ta = 25 °C)

Parameter	Symbol	Value	Unit
Repetitive Reverse Voltage	V_{RRM}	100	V
Average Rectified Output Current	$I_{F(AV)}$	200	mA
Non-Repetitive Peak Forward Surge Current	I_{FSM}	@ t = 1.0 s	1.0
		@ t = 1.0 μs	2.0
Power Dissipation	P_{tot}	400	mW
Thermal Resistance Junction to Ambient	R_{EJA}	312	°C/W
Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{STG}	-55 to + 150	°C

ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

Parameter	Test Conditions	Symbol	Min.	Typ.	Max.	Unit
Breakdown Voltage	$I_R = 5.0 \mu A$	V_R	75	-	-	V
	$I_R = 100 \mu A$		100	-	-	
Forward Voltage	$I_F = 10 \text{ mA}$	V_F	-	-	1.0	V
Peak Reverse Current	$V_R = 20 \text{ V}$	I_R	-	-	25	nA
	$V_R = 75 \text{ V}$		-	-	5.0	μA
	$V_R = 20 \text{ V}, T_J = 150 \text{ °C}$		-	-	50	μA
Total Capacitance	$V_R = 0 \text{ V}, f = 1 \text{ MHz}$	C_T	-	-	4	pF
Reverse Recovery Time	$I_{rr} = 30 \text{ mA}, I_F = I_R = 30 \text{ mA}, R_L = 100 \Omega$	T_{rr}	-	-	50	ns