

1N914WT

PRV : 100 Volts

Io : 200 mA

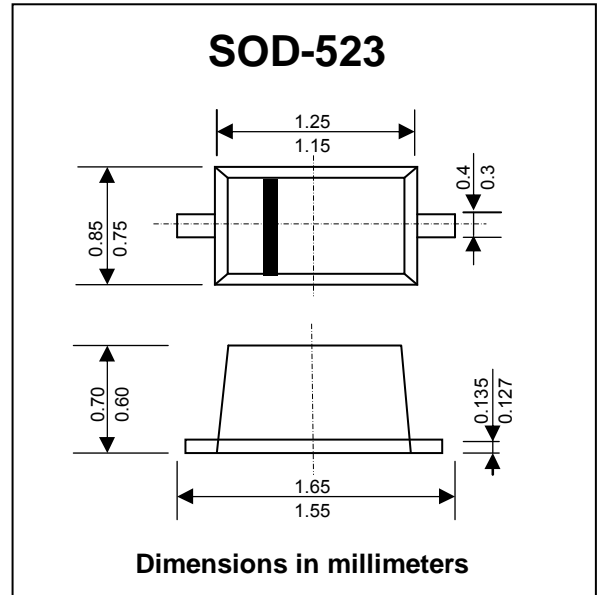
FEATURES :

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

MECHANICAL DATA :

- * Case : SOD-523 plastic
- * Moisture Sensitivity : Level 1 per J-STD-020A
- * Polarity : Cathode Band
- * Terminals : Finish - Matte Tin
Solderable per MIL-STD-202, Method 208
- * Marking Code : " A"

SURFACE MOUNT FAST SWITCHING DIODE



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

Parameter	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	100	V
Average Rectified Output Current	$I_{F(AV)}$	200	mA
Non-Repetitive Peak Forward Surge Current @ t = 1.0 s	I_{FSM}	0.5	A
@ t = 1.0 μs		1.0	
Power Dissipation	P_{tot}	150	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	833	°C/W
Operating Junction Temperature Range	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
Reverse 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	$V_R = 75 \text{ V}$	I_R	-	-	5.0	μA
	$V_R = 20 \text{ V}$		-	-	25	nA
Total Capacitance	$V_R = 0 \text{ V}, f = 1 \text{ MHz}$	C_T	-	-	4	pF
Reverse Recovery Time	$I_{rr} = 0.1 I_R, I_F = I_R = 10 \text{ mA}, R_L = 100 \Omega$	T_{rr}	-	-	4	ns

RATING AND CHARACTERISTIC CURVES (1N914WT)

FIG.3 - TYPICAL FORWARD CHARACTERISTICS

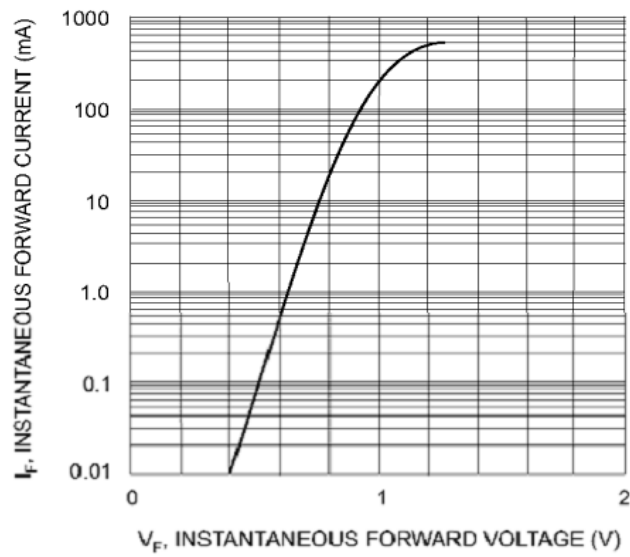


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

