

# 1N914WT

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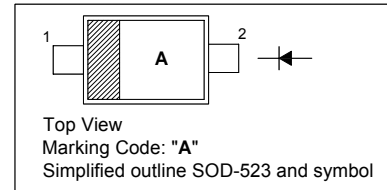
## SURFACE MOUNT FAST SWITCHING DIODE

### Features

- Fast switching speed
- Ultra-small surface mount package
- For general purpose switching applications

### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

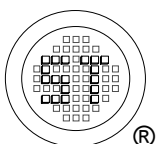


### Absolute Maximum Ratings ( $T_a = 25\text{ }^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Repetitive Reverse Voltage	$V_{RRM}$	100	V
Average Rectified Forward Current	$I_{F(AV)}$	200	mA
Non-repetitive Peak Forward Surge Current Pulse Width = 1 s Pulse Width = 1 $\mu$ s	$I_{FSM}$	0.5 1	A
Power Dissipation	$P_{tot}$	150	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	833	$^\circ\text{C/W}$
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 55 to + 150	$^\circ\text{C}$

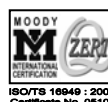
### Electrical Characteristics ( $T_a = 25\text{ }^\circ\text{C}$ )

Parameter	Symbol	Min.	Max.	Unit
Breakdown Voltage at $I_R = 5\text{ }\mu\text{A}$ at $I_R = 100\text{ }\mu\text{A}$	$V_R$	75 100	- -	V V
Forward Voltage at $I_F = 10\text{ mA}$	$V_F$	-	1	v
Reverse Current at $V_R = 20\text{ V}$ at $V_R = 75\text{ V}$	$I_R$	- -	25 5	nA $\mu\text{A}$
Diode Capacitance at $V_R = 0\text{ V}$ , $f = 1\text{ MHz}$	$C_{tot}$	-	4	pF
Reverse Recovery Time at $I_{rr} = 0.1 \times I_R$ , $I_F = I_R = 10\text{ mA}$ , $R_L = 100\text{ }\Omega$	$t_{rr}$	-	4	ns



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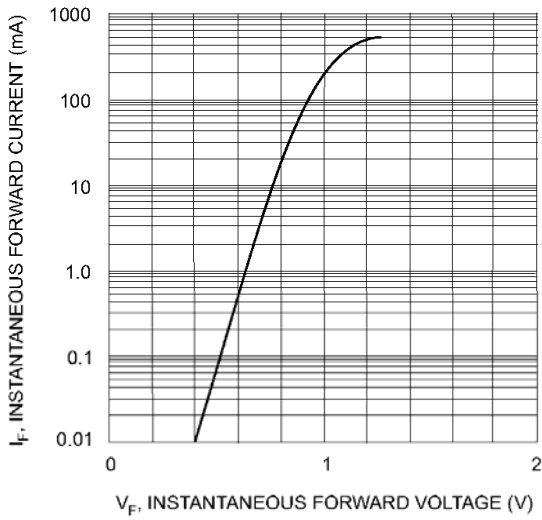


Fig. 1 Forward Characteristics

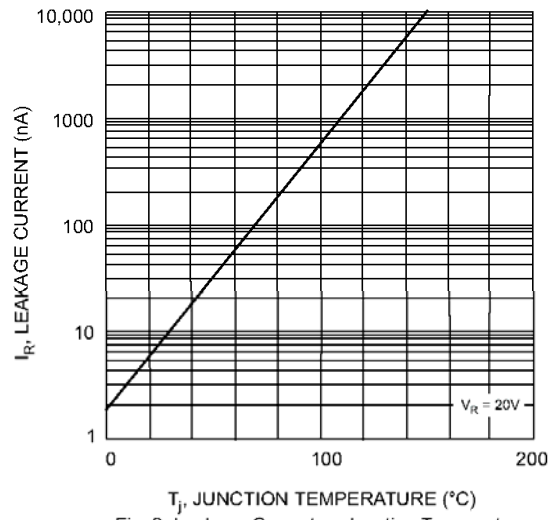
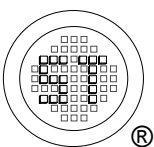
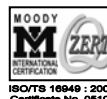


Fig. 2 Leakage Current vs Junction Temperature



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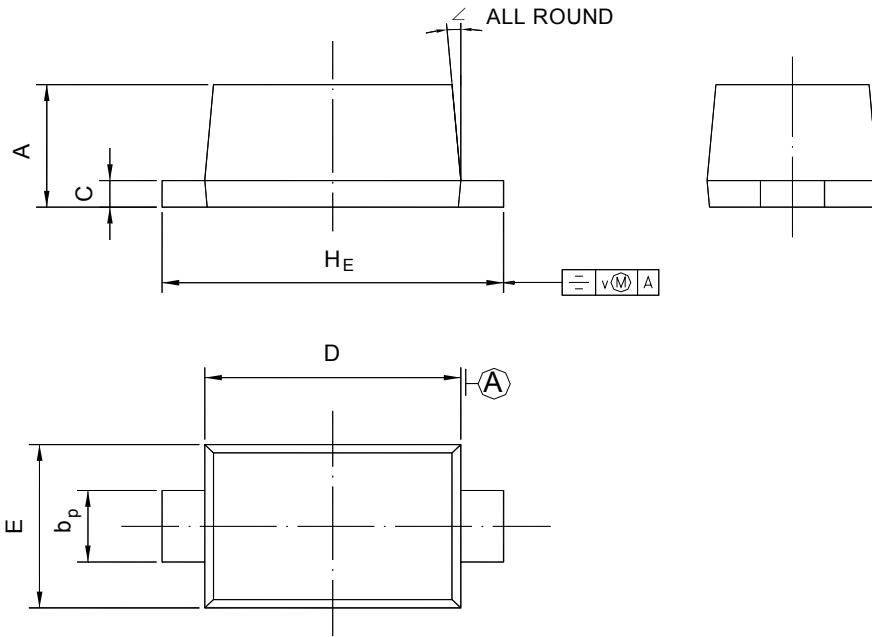
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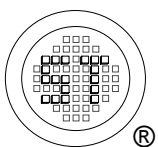
## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

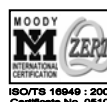
SOD-523



UNIT	A	b <sub>p</sub>	C	D	E	H <sub>E</sub>	V	∠
mm	0.70 0.60	0.4 0.3	0.135 0.127	1.25 1.15	0.85 0.75	1.7 1.5	0.1	5°



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