

### **Features**

- Average Rectified Output Current:I<sub>O</sub>=150 mA
- High Conductance



**SOD-123** 



# **Package Marking and Ordering Information**

Product ID	Pack	Marking	Qty(PCS)
1N914W	SOD-123	T4	3000

Maximum Ratings(Ta=25 unless otherwise noted)

Parameter	Symbol	Limit	Unit
Non-Repetitive Peak Reverse Voltage	$V_{RM}$	100	V
Peak Repetitive Peak Reverse Voltage	$V_{RRM}$		
Working Peak Reverse Voltage	$V_{RWM}$	75	V
DC Blocking Voltage	$V_{R}$		
RMS Reverse Voltage	$V_{\text{R}(\text{RMS})}$	71	V
Forward Continuous Current	I <sub>FM</sub>	300	mA
Average Rectified Output Current	Io	150	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I <sub>FSM</sub>	2.0	Α
Power Dissipation	Pd	350	mW
Thermal Resistance from Junction to Ambient(Note 1)	$R_{\theta JA}$	357	°C/W
Operation Junction and Storage Temperature Range	$T_J, T_STG$	-55~+150	℃

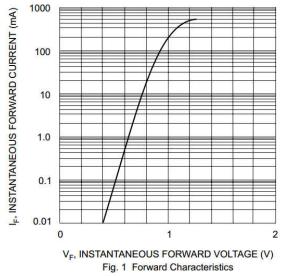
Note 1:Device mounted on 1"x1" FR4 PCB,1oz single-side copper.

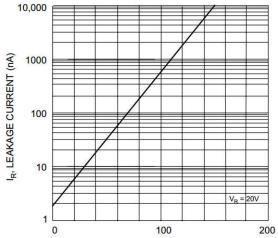
## Electrical Characteristics(Ta=25 unless otherwise specified)

Parameter	Symbol	Min	Тур	Max	Unit	Conditions
	V <sub>F1</sub>			0.715	V	I <sub>F</sub> =1mA
Famurand voltage	V <sub>F2</sub>			0.855	V	I <sub>F</sub> =10mA
Forward voltage	$V_{F3}$			1.0	V	I <sub>F</sub> =50mA
	V <sub>F4</sub>			1.25	V	I <sub>F</sub> =150mA
Reverse current	I <sub>R1</sub>			1	μA	V <sub>R</sub> =75V
Reverse current	I <sub>R2</sub>			25	nA	V <sub>R</sub> =20V
Capacitance between terminals	C <sub>T</sub>			2	pF	V <sub>R</sub> =0V,f=1MHz
Reverse recovery time	t <sub>rr</sub>			4	ns	I <sub>F</sub> =I <sub>R</sub> =10mA
reverse recovery diffe	ur					Irr=0.1 $XI_R$ , $R_L$ =100 $\Omega$



## **Typical Characteristics**

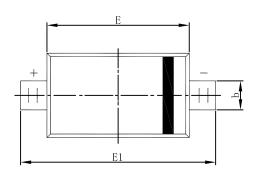


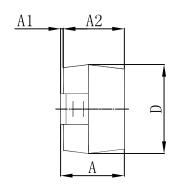


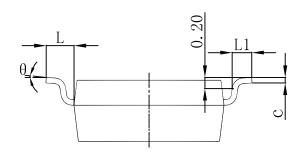
T<sub>j</sub>, JUNCTION TEMPERATURE (°C) Fig. 2 Leakage Current vs Junction Temperature



# **Package Outline Dimensions** SOD-123







Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
Α	1.050	1.250	0.041	0.049	
A1	0.000	0.100	0.000	0.004	
A2	1.050	1.150	0.041	0.045	
b	0.450	0.650	0.018	0.026	
С	0.080	0.150	0.003	0.006	
D	1.500	1.700	0.059	0.067	
E	2.600	2.800	0.102	0.110	
E1	3.550	3.850	0.140	0.152	
L	0.500 REF		0.020 REF		
L1	0.250	0.450	0.010	0.018	
θ	0°	8°	0°	8°	



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