■ **Switching Diodes**

Pinning

1.Cathode	2.Anode

SOD-123

FEATURES

- For surface mounted applications
- Glass Passivated Chip Junction
- Fast reverse recovery time
- Ideal for automated placement
- Lead free in comply with EU RoHS 2011/65/EU directives

Marking Code	
1N914W	T4

MECHANICAL DATA

- Case: SOD-123
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 16mg / 0.00056oz

Absolute Maximum Ratings at 25 °C

Parameter	Symbols	1N914W	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Maximum RMS voltage	V_{RMS}	75	V
Continuous Forward Current	I_F	300	mA
Non-reptitive Peak Forward Surge Current at 1ms	I_{FSM}	4	A
Total Power Dissipation	P_{tot}	400	mW
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150	°C

Characteristics at T_a = 25 °C

Parameter		Symbols	1N914W	Units
Reverse BreakdownVoltage at IR=1μA		$V_{(BR)R}$	75	V
Maximum Forward Voltage	at 1 mA	V_F	0.715	V
	at 10 mA		0.855	
	at 50 mA		1.00	
	at 150 mA		1.25	
	at 300 mA		1.50	
Peak Reverse Current	at V_R=20V T_j=25°C	I_R	0.025	uA
	at V_R=75V T_j=25°C		1	
	at V_R=25V T_j=150°C		30	
	at V_R=75V T_j=150°C		50	
Typical Junction Capacitance f=1MHz,V_R=4V		C_j	5	pF
Maximum Reverse Recovery Time		T_{rr} Typical	4	nS

(1) Measured with IF = 0.5 A, IR = 1 A, Irr = 0.25 A

Fig.1 Power Derating Curve

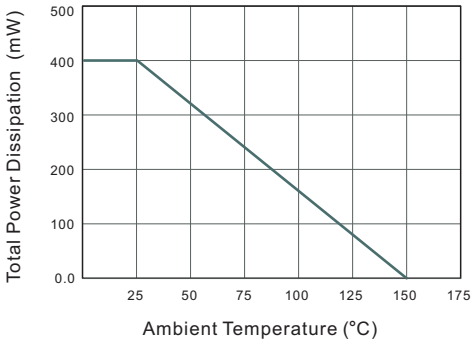


Fig.2 Typical Reverse Characteristics

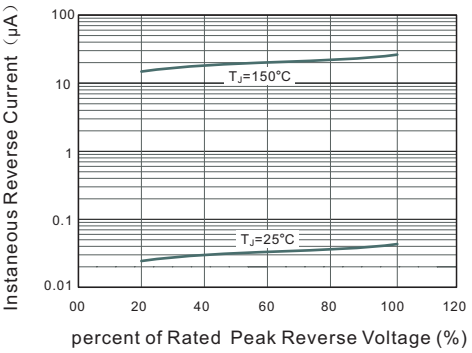


Fig.3 Typical Instaneous Forward Characteristics

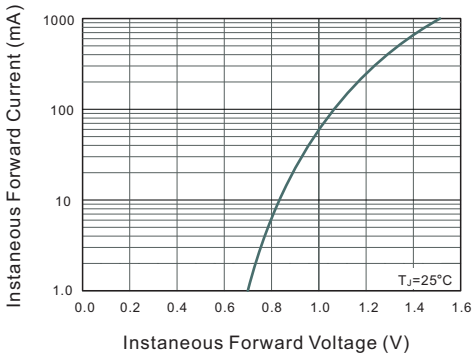
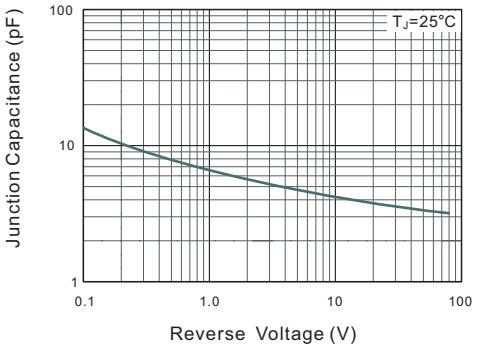


Fig.4 Typical Junction Capacitance

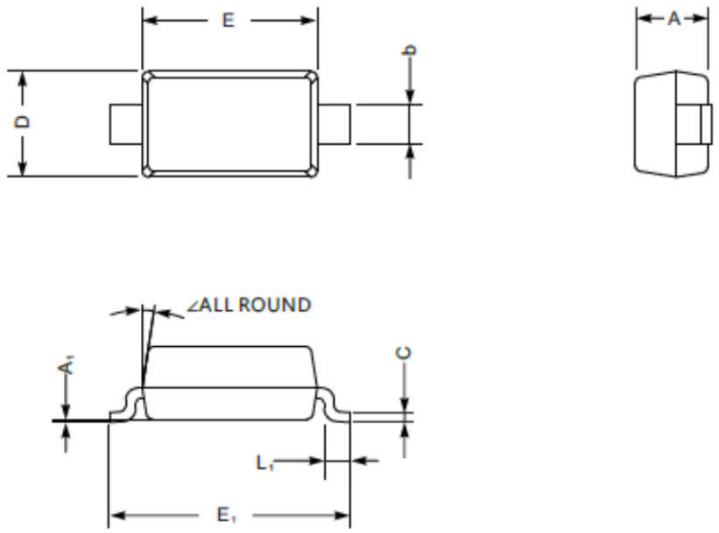


Ordering information

Package	Packing Description	Packing Quantity
SOD-123	Tape/Reel,7"reel	3000PCS/Reel 120000PCS/Carton

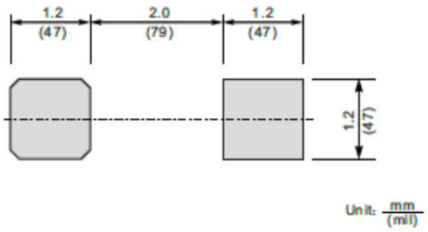
Package Dimensions

SOD-123



Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	0.9	1.3	35	51
C	0.09	0.22	3.5	8.7
D	1.5	1.8	59	71
E	2.5	2.8	98	110
E1	3.6	3.9	142	154
b	0.5	0.7	20	28
L1	0.25	0.45	10	18
A1	-	0.2	-	8
∠	9°			

The recommended mounting pad size



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