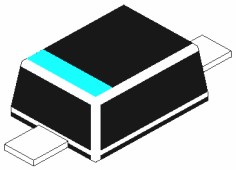
Continental Device India Limited

An ISO/TS 16949, ISO 9001 and ISO 14001 Certified Company

SILICON EPITAXIAL SWITCHING DIODE

1N914WS

SOD-323
PLASTIC PCAKAGE



Marking
1N914WS=WQ with cathode band

Small Signal Diode

ABSOLUTE MAXIMUM RATINGS (T_a=25ºC)

DESCRIPTION	SYMBOL	VALUE	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Average Rectified Forward Current	$I_{F\ (AV)}$	200	mA
Non Repetitive Peak Forward Surge Current	I_{FSM}		
Pulse width=1s		0.5	A
Pulse width=1ms		1.0	A
Power Dissipation	P_{tot}	200	mW
Junction Temperature	T_j	150	ºC
Storage Temperature Range	T_{stg}	- 55 to +150	ºC

THERMAL RESISTANCE

Junction to Ambient in free air	$R_{th\ (j-a)}$	312	ºC/W

ELECTRICAL CHARACTERISTICS (T_a=25ºC unless specified otherwise)

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	MAX	UNIT
Breakdown Voltage	V_R	I_R=5µA	75		V
		I_R=100µA	100		V
Forward Voltage	V_F	I_F=10mA		1.0	V
Reverse Current	I_R	V_R=20V		25	nA
		V_R=20V, T_j=150ºC		50	µA
		V_R=75V		5.0	µA
DYNAMIC CHARACTERISTICS					
Capacitance	C_{tot}	V_R=0V, f=1MHz		4.0	pF
Reverse Recovery Time	t_{rr}	I_F= I_R=30mA, R_L=100Ω, I_{RR}=3.0mA		50	ns

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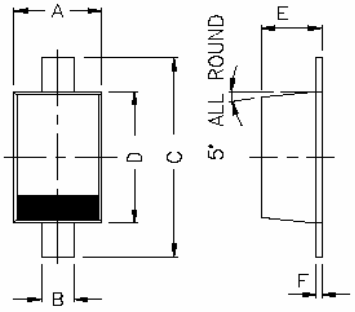
PACKAGE SOD-323 FL



DIM	MIN.	MAX.
A	1.15	1.35
B	0.25	0.40
C	2.30	2.80
D	1.60	1.80
E	0.80	1.10
F	0.00	0.15

All dimensions are in mm

CATHODE IS MARKED BY BAND

Customer Notes

1N914WS

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Component Disposal Instructions

1. CDIL Semiconductor Devices are RoHS compliant, customers are requested to please dispose as per prevailing Environmental Legislation of their Country.

2. In Europe, please dispose as per EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

Disclaimer

CDIL is a registered Trademark of
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