CHINA BASE INTERNATIONAL

SOD-323

BA591WS

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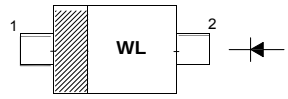
BAND SWITCHING DIODE

Features

- Very small plastic SMD package
- Low diode capacitance
- Low diode forward resistance
- Small inductance

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



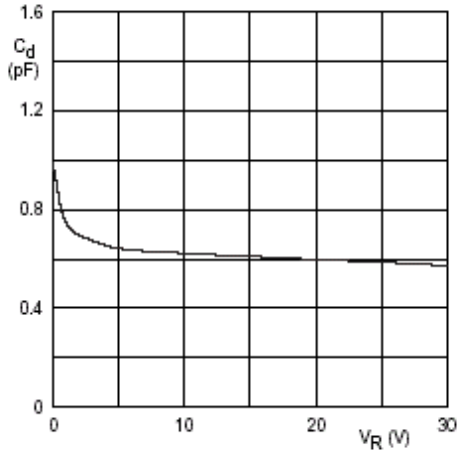
Top View
Marking Code: "**WL**"
Simplified outline SOD-323 and symbol

Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Continuous Reverse Voltage	V_R	35	V
Continuous Forward Current	I_F	100	mA
Power Dissipation	P_{tot}	500	mW
Operating Junction Temperature Range	T_J	- 65 to + 150	°C
Storage Temperature Range	T_{stg}	- 65 to + 150	°C

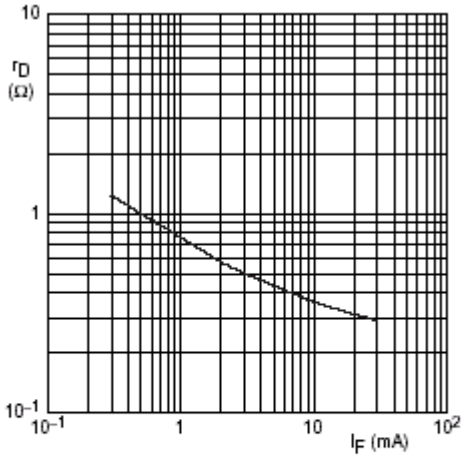
Electrical Characteristics at T_a = 25 °C

Parameter	Symbol	Typ.	Max.	Unit
Forward Voltage at I_F = 10 mA	V_F	-	1	V
Reverse Current at V_R = 20 V	I_R	-	20	nA
Diode Capacitance at V_R = 1 V, f = 1 MHz at V_R = 3 V, f = 1 MHz	C_D	- -	1.05 0.9	pF
Diode Forward Resistance at I_F = 3 mA, f = 100 MHz at I_F = 10 mA, f = 100 MHz	r_D	- -	0.7 0.5	Ω
Reverse Resistance at V_R = 1 V, f = 100 MHz	$1/g_p$	100	-	KΩ
Series Inductance	Ls	2	-	nH



f = 1 MHz; T_j = 25 °C.

Fig.2 Diode capacitance as a function of reverse voltage; typical values.



f = 100 MHz; T_j = 25 °C.

Diode forward resistance as a function of forward current; typical values.