

Continental Device India Pvt. Limited

An IATF 16949, ISO9001 and ISO 14001 Certified Company



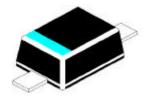


ISO 14001

SILICON EXPITAXIAL PLANAR SWITCHING DIODE

BAS16WS

SOD-323 PLASTIC PACKAGE



Marking

BAS16WS = K & with cathode band

Fast Switching Diode

ABSOLUTE MAXIMUM RATINGS

DESCRIPTION	SYMBOL	VALUE	UNIT
Continuous Reverse Voltage	V_R	75	V
Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Forward Current (Continuous)	I _F	250	mA
Non Repetitive Peak Forward Current			
t=1 ns	I _{FSM}	2.0	А
t=1ms	I _{FSM}	1.0	Α
t=1s	I _{FSM}	0.5	Α
Power Dissipation @ T _{amb} =25°C	P _{tot}	200	mW
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	- 65 to 150	°C

THERMAL RESISTANCE

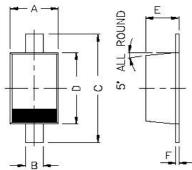
Junction to Ambient in free air	R _{th (j-a)}	650	°C/W
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ELECTRICAL CHARACTERISTICS (T_{amb}=25°C unless specified otherwise)

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Forward Voltage	V _F	I _F = 1 mA			0.715	V
-		I _F = 10 mA I _F = 50 mA			0.855	V
					1.0	V
		I _F = 150 mA			1.25	V
Reverse Voltage Leakage Current	I _R	V _R =25V, T _j =150°C			30	μΑ
		V _R =75V			1.0	μΑ
		V _R =75V, T _j =150°C			50	μΑ
Diode Capacitance	C_d	V _R =0V, f=1MHz			2.0	pF
Reverse Recovery Time When Switched from	t _{rr}	I_F =10mA to I_R =60mA, R_L 100 Ω , Measured at I_R =1mA			6.0	ns

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PACKAGE SOD-323 FL



0.000	27.000000	10.000.00000000000000000000000000000000
DIM	MIN.	MAX.
Α	1.15	1.35
В	0.25	0.40
С	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

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).

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Customer Notes BAS16WS

> **SOD-323** PLASTIC PACKAGE

Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished on the CDIL Web Site/CD are believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

CDIL strives for continuous improvement and reserves the right to change the specifications of its products without prior notice.



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