

**SILICON EXPITAXIAL PLANAR SWITCHING DIODE**

**BAS16WS**

**SOD-323  
PLASTIC PACKAGE**



**Marking**

BAS16WS = A6 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			
$t=1\mu s$	$I_{FSM}$	2.0	A
$t=1ms$	$I_{FSM}$	1.0	A
$t=1s$	$I_{FSM}$	0.5	A
Power Dissipation @ $T_{amb}=25^\circ C$	$P_{tot}$	200	mW
Junction Temperature	$T_j$	150	$^\circ C$
Storage Temperature Range	$T_{stg}$	- 65 to 150	$^\circ C$

**THERMAL RESISTANCE**

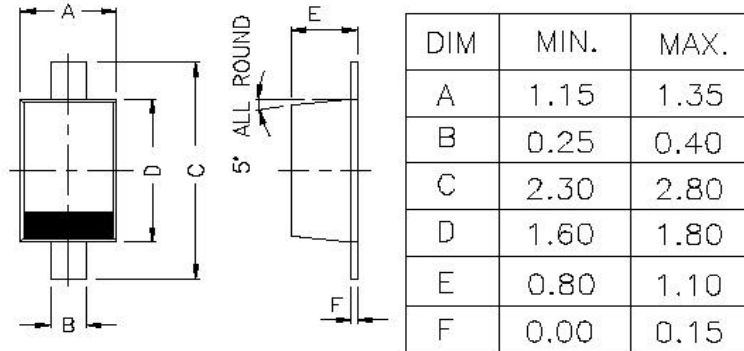
Junction to Ambient in free air	$R_{th(j-a)}$	650	$^\circ C/W$
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**ELECTRICAL CHARACTERISTICS ( $T_{amb}=25^\circ C$  unless specified otherwise)**

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Forward Voltage	$V_F$	$I_F = 1\text{ mA}$ $I_F = 10\text{ mA}$ $I_F = 50\text{ mA}$ $I_F = 150\text{ mA}$			0.715 0.855 1.0 1.25	V V V V
Reverse Voltage Leakage Current	$I_R$	$V_R=25V, T_j=150^\circ C$ $V_R=75V$ $V_R=75V, T_j=150^\circ C$			30 1.0 50	$\mu A$ $\mu A$ $\mu A$
Diode Capacitance	$C_d$	$V_R=0V, f=1MHz$			2.0	pF
Reverse Recovery Time When Switched from	$t_{rr}$	$I_F=10mA$ to $I_R=60mA, R_L 100\ \Omega$ , Measured at $I_R=1mA$			6.0	ns

BAS16WS Rev140604E

PACKAGE SOD-323 FL



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).

### **Disclaimer**

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