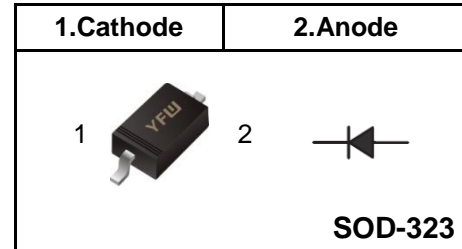


■ Surface Mount Fast Switching Diode

■ Features

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance

**Pinning**



**Marking Code**

<b>BAV16WS</b>	<b>T6</b>
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■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Non-Repetitive Peak Reverse Voltage	V <sub>RM</sub>	100	V
Peak repetitive reverse voltage	V <sub>R(RM)</sub>	75	V
Working peak reverse voltage	V <sub>R(WM)</sub>		
DC blocking voltage	V <sub>R</sub>		
RMS reverse voltage	V <sub>R(RMS)</sub>	53	V
Average rectified output current	I <sub>O</sub>	150	mA
Forward Continuous Current	I <sub>FM</sub>	300	mA
Non-Repetitive Peak Forward Surge Current @ t = 1.0 μs	I <sub>FSM</sub>	2.0	A
@ t = 1.0s		1.0	
Power dissipation	P <sub>D</sub>	400	mW
Typical Thermal Resistance Junction to Ambient	R <sub>θJA</sub>	315	°C/W
Operating and storage temperature range	T <sub>j</sub> , T <sub>stg</sub>	-65 to +150	°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse Breakdown Voltage	V <sub>(BR)R</sub>	I <sub>R</sub> = 1.0 μA	75			V
Forward voltage	V <sub>FM</sub>	I <sub>F</sub> = 1.0mA I <sub>F</sub> = 10mA I <sub>F</sub> = 50mA I <sub>F</sub> = 150mA			0.745 0.855 1.0 1.25	V
Peak Reverse current	I <sub>RM</sub>	V <sub>R</sub> = 75V V <sub>R</sub> = 75V, T <sub>J</sub> = 150°C V <sub>R</sub> = 25V, T <sub>J</sub> = 150°C V <sub>R</sub> = 20V			1.0 50 30 25	μA μA nA nA
Junction Capacitance	C <sub>J</sub>	V <sub>R</sub> = 0, f = 1.0MHz			2.0	pF
Reverse Recovery Time	t <sub>rr</sub>	I <sub>F</sub> = I <sub>R</sub> = 10mA, I <sub>rr</sub> = 0.1xI <sub>R</sub> , R <sub>L</sub> = 100 Ω			4.0	ns

**Ordering information**

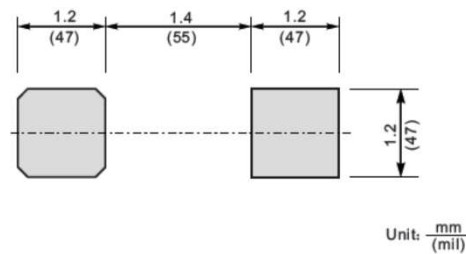
Package	Packing Description	Packing Quantity
SOD-323	Tape/Reel,7"reel	3000PCS/Reel 120000PCS/Carton

**Package Dimensions**

**SOD-323**

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	0.8	1.1	32	43
C	0.08	0.15	3.1	5.9
D	1.2	1.4	47	55
E	1.4	1.8	63	70
E1	2.55	2.75	100	108
b	0.25	0.4	9.8	16
L1	0.2	0.45	7.9	16
A1	-	0.2	-	8
∠	9°			

**The recommended mounting pad size**



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