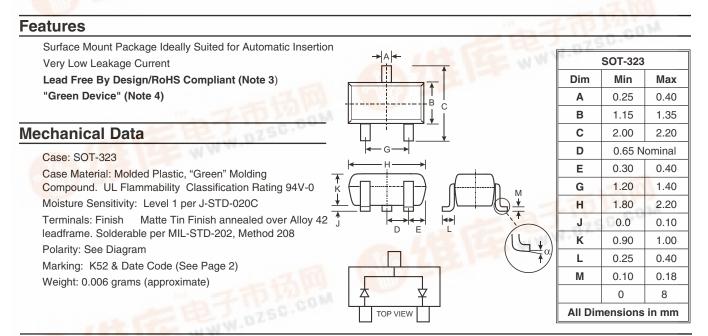


## 捷多邦,专业PCB打样工厂,24小时加急出货



# **BAV199W**

DUAL SURFACE MOUNT LOW LEAKAGE DIODE



## Maximum Ratings @ T<sub>A</sub> = 25 C unless otherwise specified

Characteristic	Symbol	Value	Unit	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	85		
RMS Reverse Voltage	V <sub>R(RMS)</sub>	60	V	
Forward Continuous Current (Note 2) Single diode Double diode	I <sub>FM</sub>	160 140	mA	
Repetitive Peak Forward Current (Note 2)	IFRM	500	mA	
Non-Repetitive Peak Forward Surge Current @ t = 1.0 s @ t = 1.0ms @ t = 1.0s	IFSM	4.0 1.0 0.5	А	
Power Dissipation (Note 2)	Pd	200	mW	
Thermal Resistance Junction to Ambient Air (Note 2)	R <sub>JA</sub>	625	C/W	
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>STG</sub>	-65 to +150	С	

#### Electrical Characteristics @ T<sub>A</sub> = 25 C unless otherwise specified

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 1)	V <sub>(BR)R</sub>	<mark>8</mark> 5			V	I <sub>R</sub> = 100 A
Forward Voltage	VF			0.90 1.0 1.1 1.25	V	I <sub>F</sub> = 1.0mA I <sub>F</sub> = 10mA I <sub>F</sub> = 50mA I <sub>F</sub> = 150mA
Leakage Current (Note 1)	I <sub>R</sub>			5.0 80	nA nA	$V_R = 75V$ $V_R = 75V$ , $T_j = 150$ C
Total Capacitance	CT		2		pF	V <sub>R</sub> = 0, f = 1.0MHz
Reverse Recovery Time	t <sub>rr</sub>			3.0	s	$I_{F} = I_{R} = 10mA,$ $I_{rr} = 0.1 \times I_{R}, R_{L} = 100$

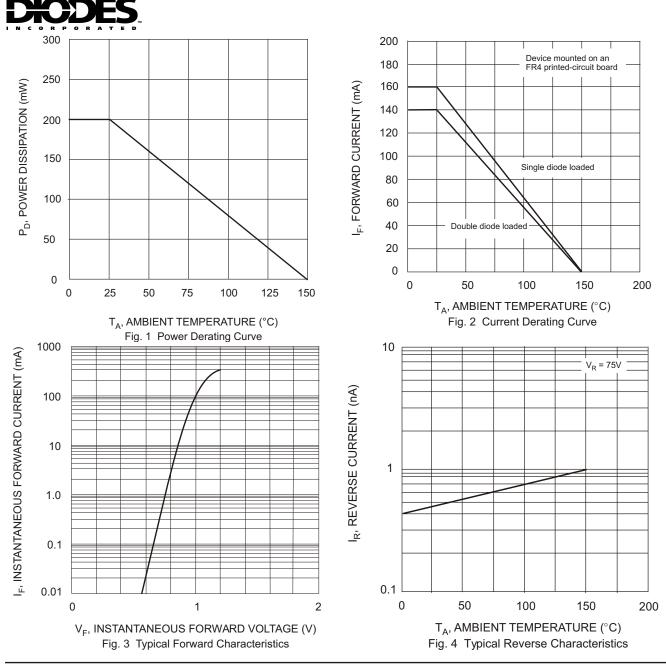
Notes: 1. Short duration test pulse to minimize self-heating effect.

Part mounted on FR-4 PC board with recommended pad layout, which can be found on our website

at http://www.diodes.com/datasheets/ap02001.pdf.

No purposefully added lead.

7504 Gipdes Inc.'s "Green" policy can be found on our website at http://www.diodes.com/products/lead\_free/index.php.



## Ordering Information (Note 5)

Device	Packaging	Shipping		
BAV199W-7	SOT-323	3000/Tape & Reel		

Notes: 5. For Packaging Details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

## **Marking Information**

K52	2	ΥM

 $\begin{array}{l} \mathsf{K52} = \mathsf{Product} \ \mathsf{Type} \ \mathsf{Marking} \ \mathsf{Code} \\ \mathsf{YM} = \mathsf{Date} \ \mathsf{Code} \ \mathsf{Marking} \\ \mathsf{Y} = \mathsf{Year} \ \mathsf{ex:} \ \mathsf{T} = 2006 \\ \mathsf{M} = \mathsf{Month} \ \mathsf{ex:} \ \mathsf{9} = \mathsf{September} \end{array}$ 

Date Code Key

Year	2	004	2005	2006	200	7	2008	2009	20	10	2011	2012
Code		R	S	Т	U		V	W	×	(	Y	Z
Month	Jan	Feb	Mar	Apr	Мау	Jur	n Jul	Aug	Sep	Oct	Nov	Dec
Code	1	2	3	4	5	6	7	8	9	0	N	D



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