## **BAV199W**

### LOW LEAKAGE DOUBLE DIODE

For low leakage current applications

#### **Feature**

- Very low leakage current
- Medium speed switching times





SOT-323 Plastic Package Marking Code: JY

### Absolute Maximum Ratings ( $T_a = 25$ °C)

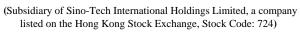
Parameter		Symbol	Value	Unit	
Peak Repetitive Reverse Voltage		$V_{RRM}$	85	V	
Continuous Reverse Voltage		$V_R$	85	V	
Continuous Forward Current	Single Diode Double Diode	l <sub>F</sub>	160 140	mA	
Repetitive Peak Forward Current		I <sub>FRM</sub>	500	mA	
Non-Repetitive Peak Forward Surge Current	at t = 1 µs at t = 1 ms at t = 1 s	I <sub>FSM</sub>	4 1 0.5	Α	
Power Dissipation		$P_d$	250	mW	
Thermal Resistance Junction to Ambient Air		$R_{ heta JA}$	625	°C/W	
Operating and Storage Temperature Range		$T_{j},T_{stg}$	- 65 to + 150	°C	

#### Characteristics at T<sub>a</sub> = 25 °C

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at I <sub>R</sub> = 100 μA	$V_{(BR)R}$	85	-	V
Forward Voltage at $I_F = 1$ mA at $I_F = 10$ mA at $I_F = 50$ mA at $I_F = 150$ mA	V <sub>F</sub>	- - -	0.9 1 1.1 1.25	V
Reverse Current at $V_R$ = 75 V at $V_R$ = 75 V, $T_j$ = 150 °C	I <sub>R</sub>	- -	5 80	nA
Total Capacitance at $V_R = 0$ , $f = 1$ MHz	C <sub>T</sub>	-	2	pF
Reverse Recovery Time at $I_F = I_R = 10 \text{ mA}$ , $I_{rr} = 0.1 \text{ X } I_R$ , $R_L = 100 \Omega$	t <sub>rr</sub>	-	3	μs





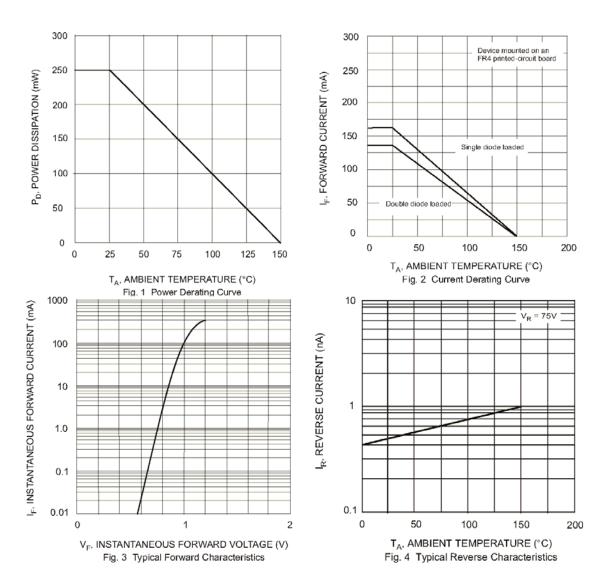








Dated: 25/09/2008





# SEMTECH ELECTRONICS LTD.

(Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)







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