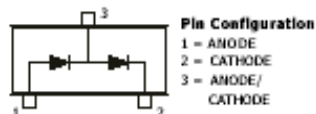
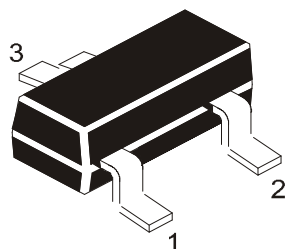


## LOW LEAKAGE DUAL SWITCHING DIODE

BAV199



**SOT-23**  
**Formed SMD Package**

Series Pair Configuration  
 Marking Code : PX

### ABSOLUTE MAXIMUM RATINGS ( $T_A=25^\circ\text{C}$ unless otherwise specified)

DESCRIPTION	SYMBOL	VALUE	UNITS
Repetitive Peak Reverse Voltage	$V_{RRM}$	85	V
Continuous Reverse Voltage	$V_R$	85	V
Forward Continuous Current	$I_F$	160	mA
Single Diode		140	
Double Diode			
Repetitive Peak Forward Current	$I_{FRM}$	500	mA
Non-Repetitive Peak Forward Surge Current	$I_{FSM}$		A
@ $t = 1 \mu\text{s}$		4	
@ $t = 1 \text{ ms}$		1	
@ $t = 1 \text{ s}$		0.5	
Power Dissipation	$P_D$	250	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	500	$^\circ\text{C/W}$
Operating and Storage Temperature Range	$T_j, T_{STG}$	-65 to +150	$^\circ\text{C}$

### Electrical Characteristics ( $T_a=25^\circ\text{C}$ unless specified otherwise)

DESCRIPTION	SYMBOL	CONDITIONS	MIN	MAX	UNIT
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R=100\mu\text{A}$	85		V
Forward Voltage	$V_F$	$I_F=1\text{mA}$		0.9	V
		$I_F=10\text{mA}$		1.0	
		$I_F=50\text{mA}$		1.1	
		$I_F=150\text{mA}$		1.25	
Reverse Current	$I_R$	$V_R=75\text{V}$		5	nA
		$V_R=75\text{V}, T_j=150^\circ\text{C}$		80	
Total Capacitance	$C_T$	$V_R=0, f=1\text{MHz}$	Typ 2		pF
Reverse Recovery Time	$t_{rr}$	$I_F=I_R=10\text{mA}, I_{rr}=0.1I_R, R_L=100\Omega$		3	us





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## Customer Notes

**BAV199**

## Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Discrete 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 in the Data Sheet and 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 Discrete 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).

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