

DATA SHEET

BAV199S

SURFACE MOUNT, LOW LEAKAGE SWITCHING DIODES ARRAY

VOLTAGE 100 Volts	POWER	200mWatts	SOT-363	Uni
FEATURES			_	
Two isolated diode pairs for sig	gnificant board space s	savings		
Surface mount package ideally suited for automatic insertion			000000000000000000000000000000000000	
Very low leakage current. 5pA	typical at VR=75V.			-
Low capacitance. 2pF max at V	/r=0V, f=1MHz			- 18
MECHANICAL DATA			.026(.650)TYP.	.014(.350)
Case: SOT-363 plastic			.055(1.400) .047(1.200)	
Terminals: Solderable per MIL-S	STD-202, Method 208		004(.100)MAX	
Approx weight: 0.008 gram				
Marking: P2			+	00
				.043(1.100) .035(0.900)
				<u>o</u> .þ.

ABSOLUTE RATINGS (each diode)

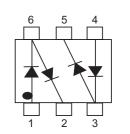
PARAMETER	Symbol	Value	UnitsMaxim- um
Maximum Reverse Voltage	V r	100	V
Peak Reverse Voltage	Vrm	100	V
Continuous Forward Current	ΙF	0.2	А
Non-repetitive Peak Forward Surge Current at t=1.0us	I FSM	2.0	А

THERMAL CHARACTERISTICS

PARAMETER	Symbol	Value	Units
PowerDissipation (Note 1)	Ртот	200	m W
Them alResistance, Junction to Ambient (Note 1)	R θ_{JA}	625	°C <i>W</i>
Junction Tem perature	T_J	-55 to 150	°C
Storage Tem perature	Тътд	-55 to 150	°C

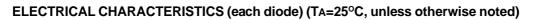
NOTE:

1. FR-5 Board = 1.0 x 0.75 x 0.062 in.



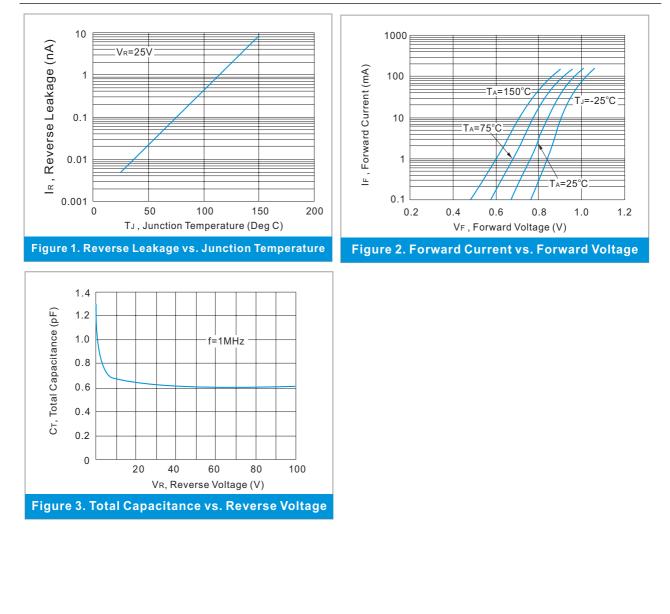
Unit: inch (mm)





PARAMETER	Symbol	TestC ondition	M N.	TYP.	MAX.	Units
Reverse Breakdown Volage	V (BR)	E=100 uA			100	V
Reverse Cument	Ir	V _R =75 V V _R =75 V JJ=150 °C			5 80	nA
Forward Volage	VF	E=1m A E=10m A E=50m A E=150m A			09 10 11 125	v
TotalC apacitance	Ст	Vr=0 V,f=1MHz			2.0	pF
Reverse Recovery Tin e	Trr	$\texttt{F=E=10mA}$, <code>RL=100\Omega</code>			3.0	us

CHARACTERISTIC CURVES (each diode)



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ORDER INFORMATION

• Packing information

T/R - 12K per 13" plastic Reel

T/R - 3.0K per 7" plastic Reel

LEGAL STATEMENT

IMPORTANT NOTICE

This information is intended to unambiguously characterize the product in order to facilitate the customer's evaluation of the device in the application. The information will help the customer's technical experts determine that the device is compatible and interchangeable with similar devices made by other vendors. The information in this data sheet is believed to be reliable and accurate. The specifications and information herein are subject to change without notice. New products and improvements in products and product characterization are constantly in process. Therefore, the factory should be consulted for the most recent information and for any special characteristics not described or specified.

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