



# **BAV99BRW**

#### QUAD SURFACE MOUNT SWITCHING DIODE ARRAY

#### **FEATURES**

- · Fast Switching Speed
- · Ultra-Small Surface Mount Package
- · For General Purpose Switching Applications
- · High Conductance
- · Easily Connected As Full-Wave Bridge
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#### **MECHANICAL DATA**

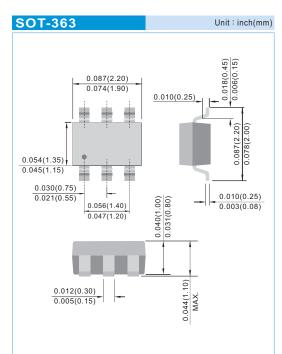
Case: SOT-363, Plastic

Terminals: Solderable per MIL-STD-750, Method 2026

Approx. Weight: 0.0002 ounces, 0.006 grams

Marking : PW





# Datasheet. Directory

## MAXIMUM RATINGS (Ta=25°C unless otherwise specified)

PARAMETER		SYMBOL	VALUE	UNIT
Non-Repetitive Peak Reverse Voltage		VRM	100	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		VRRM VRWM VR	75	V
RMS Reverse Voltage		VR(RMS)	53	V
Forward Continuous Current (Note 1)		I FM	300	mA
Average Rectified Output Current (Note 1)		lo	215	mA
Non-Repetitive Peak Forward Surge Current	@ t=1.0μs @ t=1.0s	IFSM	4.0 0.7	А
Power Dissipation (Note 1)		Po	200	mW
Thermal Resistance Junction to Ambient Air (Note 1)		Rѳja	625	°C/W
Operating and Storage Temperature Range		TJ,TsTG	-55 to + 150	°C

Notes: 1.Device mounted on FR-4 PC board with recommended pad layout

- 2. Short duration test pulse used to minimize self-heating effect
- 3.No Purposefully added lead

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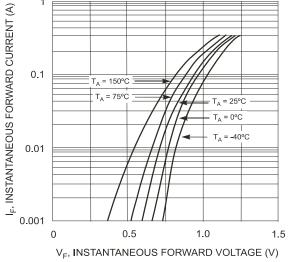
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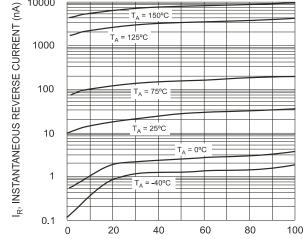
## ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise specified)

PARAMETER	TEST CONDITION	SYMBOL	MIN.	MAX.	UNIT
Reverse Breakdown Voltage (Note 2)	I R=2.5μA	V(BR)R	75	-	٧
Forward Voltage	I F=1.0mA I F=10mA I F=50mA I F=150mA	VF	-	0.715 0.855 1.0 1.25	٧
Reverse Current (Note 2)	VR=75V VR=75V,TJ=150°C VR=25V,TJ=150°C VR=25V	ΙR	-	2.5 50 30 0.03	μΑ μΑ μΑ μΑ
Total Capacitance	VR=0,f=1.0MHz	Ст	-	2.0	pF
Reverse Recovery Time	F=  R=10mA,   RR=0.1x  R,RL=100Ω	Trr	-	4.0	ns

10000

1000

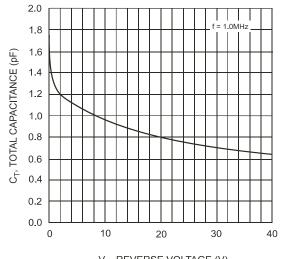


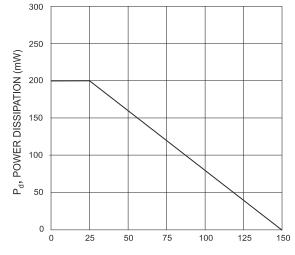


<sub>A</sub> = 125°C

Fig. 1 Forward Characteristics

 $V_{R}$ , INSTANTANEOUS REVERSE VOLTAGE (V) Fig. 2 Typical Reverse Characteristics





 $V_R$ , REVERSE VOLTAGE (V) Fig. 3 Typical Capacitance vs. Reverse Voltage

T<sub>A</sub>, AMBIENT TEMPERATURE (°C) Fig. 4 Power Derating Curve

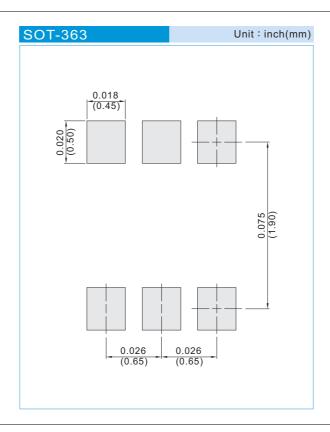
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#### **MOUNTING PAD LAYOUT**



# **ORDER INFORMATION**

· Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

### **LEGAL STATEMENT**

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