



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
- In compliance with EU RoHS 2002/95/EC directives

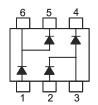
MECHANICAL DATA

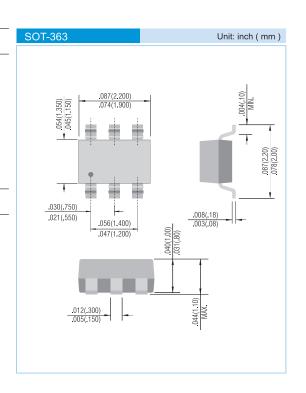
Case: SOT-363, Plastic

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

Approx. Weight: 0.006 gram

Marking: PW





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)		PD	200	mW
Thermal Resistance Junction to Ambient Air (Note 1)		Roja	625	°C/W
Operating and Storage Temperature Range		Т _J ,Тsтg	-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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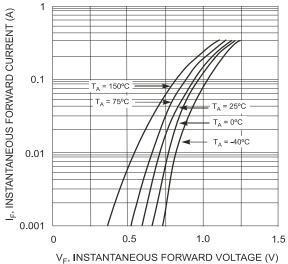




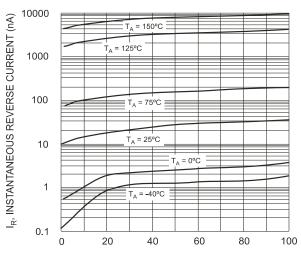
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ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise specified)

PARAMETER	TEST CONDITION	SYMBOL	MIN.	MAX.	UNIT
Reverse Breakdown Voltage (Note 2)	I R=2.5μA	V(BR)R	75	-	V
Forward Voltage	I F=1.0mA I F=10mA I F=50mA I F=150mA	VF	-	0.715 0.855 1.0 1.25	V
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	V _R =0,f=1.0MHz	Ст	-	2.0	pF
Reverse Recovery Time	F= R=10mA, RR=0.1x R,RL=100Ω	Trr	-	4.0	ns







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

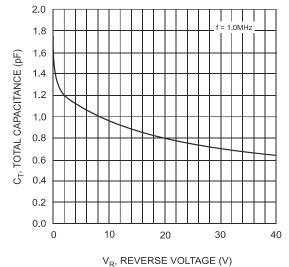
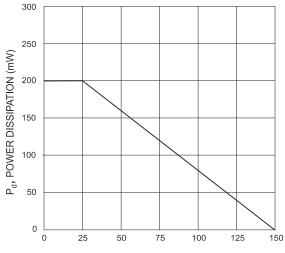


Fig. 3 Typical Capacitance vs. Reverse Voltage



T_A, AMBIENT TEMPERATURE (°C) Fig. 4 Power Derating Curve

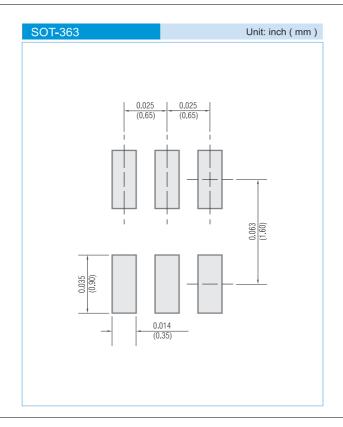
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MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

LEGAL STATEMENT

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