



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

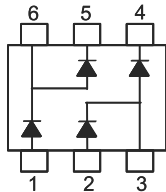
MECHANICAL DATA

Case : SOT-363, Plastic

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

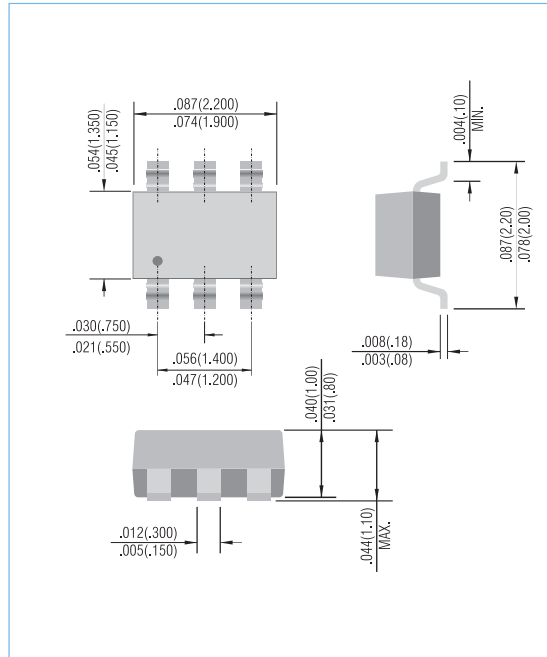
Approx. Weight : 0.006 gram

Marking : PW



SOT-363

Unit: inch (mm)



MAXIMUM RATINGS (T_A=25°C unless otherwise specified)

PARAMETER	SYMBOL	VALUE	UNIT
Non-Repetitive Peak Reverse Voltage	V _{RM}	100	V
Peak Repetitive Reverse Voltage	V _{RRM}	75	V
Working Peak Reverse Voltage	V _{RWM}		
DC Blocking Voltage	V _R		
RMS Reverse Voltage	V _{R(RMS)}	53	V
Forward Continuous Current (Note 1)	I _{FM}	300	mA
Average Rectified Output Current (Note 1)	I _O	215	mA
Non-Repetitive Peak Forward Surge Current	I _{FSM}	4.0 0.7	A
		@ t=1.0μs @ t=1.0s	
Power Dissipation (Note 1)	P _D	200	mW
Thermal Resistance Junction to Ambient Air (Note 1)	R _{θJA}	625	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-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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ELECTRICAL CHARACTERISTICS (T_A=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	V _F	-	0.715 0.855 1.0 1.25	V
Reverse Current (Note 2)	V _R =75V V _R =75V, T _J =150°C V _R =25V, T _J =150°C V _R =25V	I _R	-	2.5 50 30 0.03	μA μA μA μA
Total Capacitance	V _R =0, f=1.0MHz	C _T	-	2.0	pF
Reverse Recovery Time	I _F =I _R =10mA, I _{RR} =0.1 I _R , R _L =100Ω	T _{RR}	-	4.0	ns

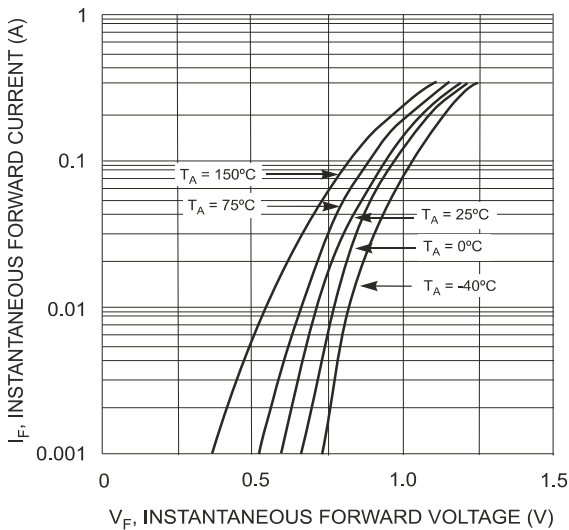


Fig. 1 Forward Characteristics

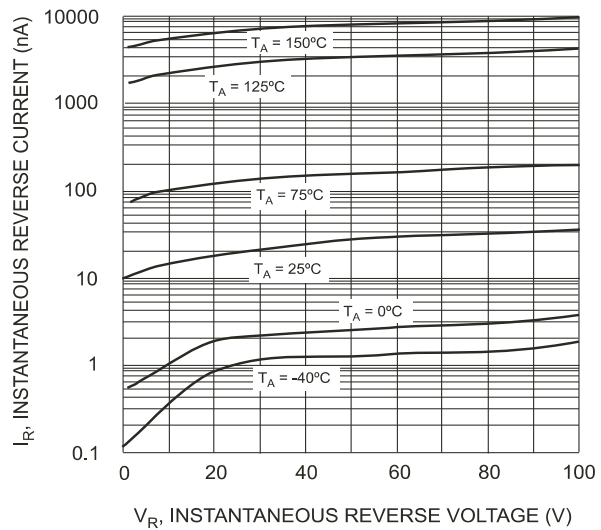


Fig. 2 Typical Reverse Characteristics

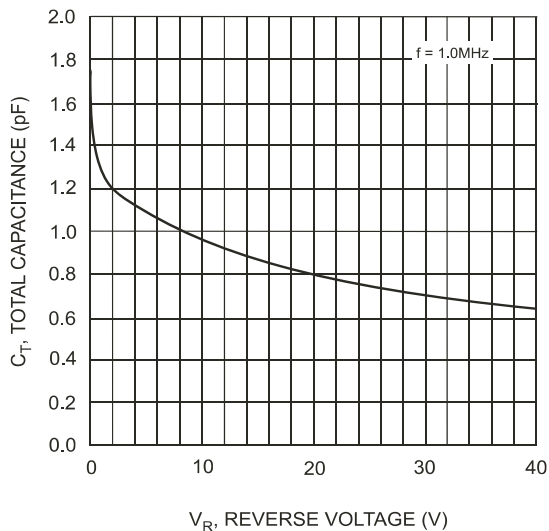


Fig. 3 Typical Capacitance vs. Reverse Voltage

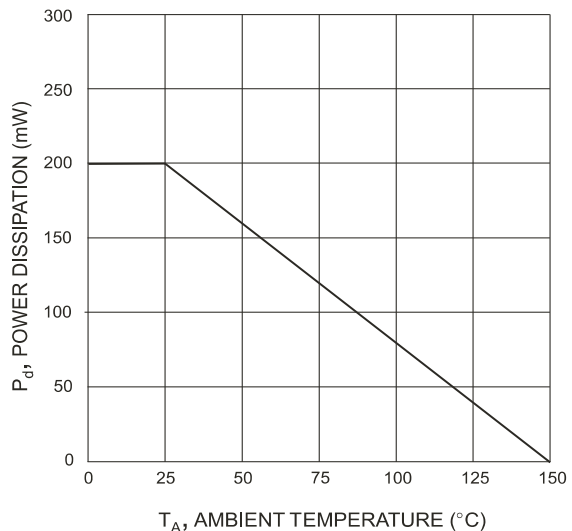
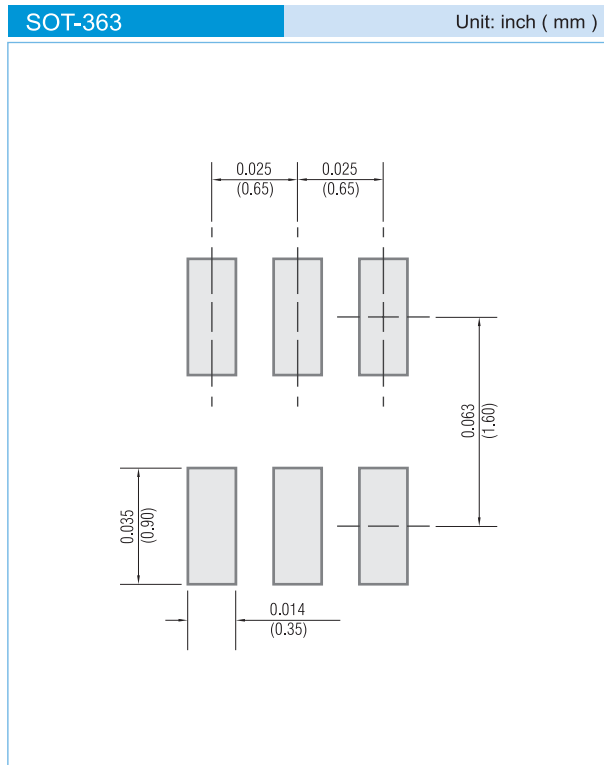


Fig. 4 Power Derating Curve



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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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