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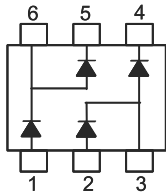
QUAD SURFACE MOUNT SWITCHING DIODE ARRAY

FEATURES

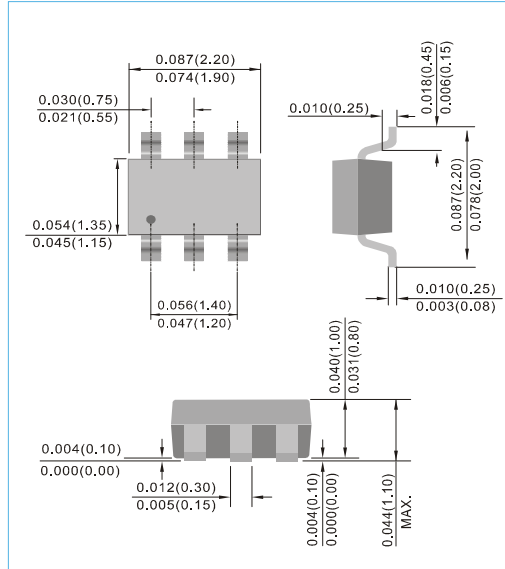
- Fast Switching Speed
- Ultra-Small Surface Mount Package
- For General Purpose Switching Applications
- High Conductance
- Easily Connected As Full-Wave Bridge
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case : SOT-363, Plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.0002 ounces, 0.006 grams
- 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 _R RM	75	V
Working Peak Reverse Voltage	V _R WM		
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	A
		0.7	
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 =1mA I _F =10mA I _F =50mA I _F =150mA	V _F	-	0.715 0.855 1 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=1MHz	C _T	-	2	pF
Reverse Recovery Time	I _F =I _R =10mA, I _{RR} =0.1xI _R , R _L =100Ω	T _{RR}	-	4	ns

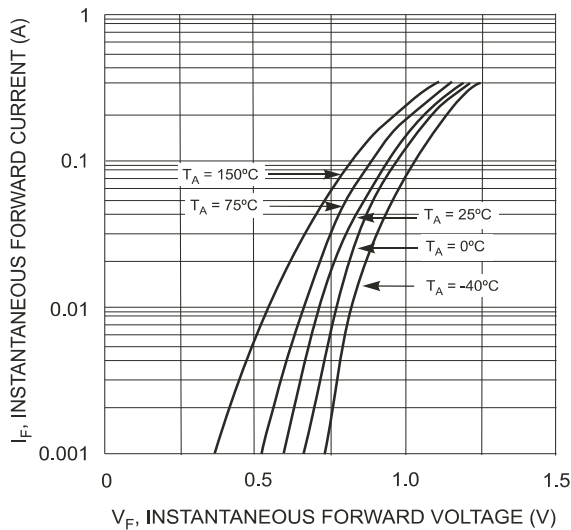


Fig. 1 Forward Characteristics

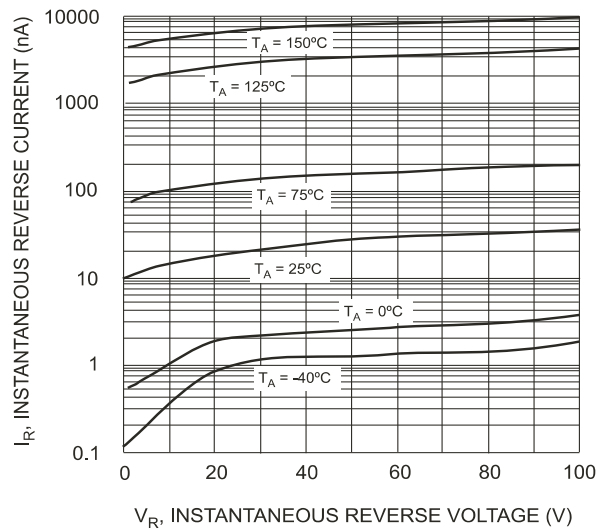


Fig. 2 Typical Reverse Characteristics

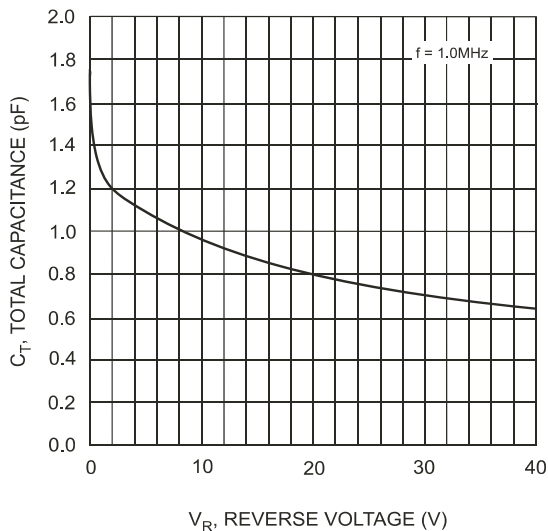


Fig. 3 Typical Capacitance vs. Reverse Voltage

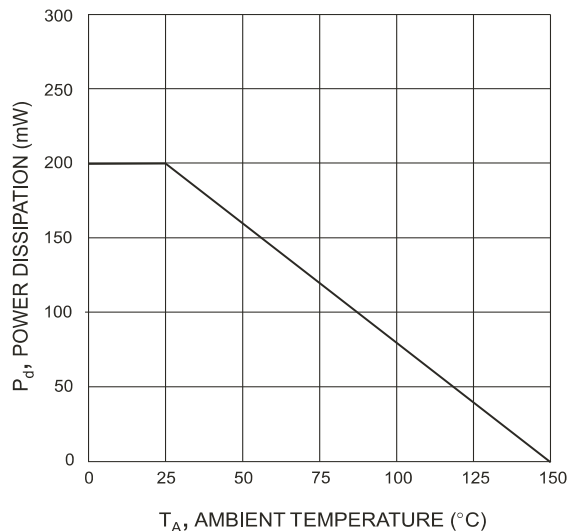


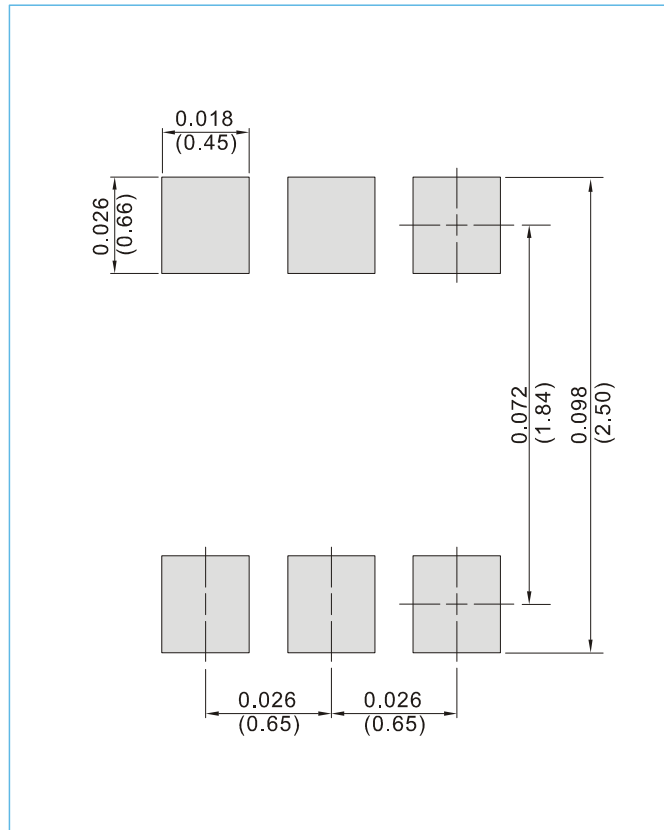
Fig. 4 Power Derating Curve



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MOUNTING PAD LAYOUT

SOT-363 Unit : inch(mm)



ORDER INFORMATION

- Packing information
T/R - 10K per 13" plastic Reel
T/R - 3K per 7" plastic Reel



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Part No_packing code_Version

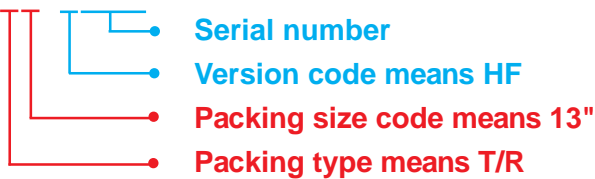
BAV99BRW_R1_00001

BAV99BRW_R2_00001

For example :

RB500V-40_R2_00001

Part No.



Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			



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