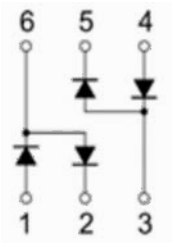
BAV99DW

RoHS COMPLIANT

Small-Signal Fast Switching Diodes



Features

- Moisture sensitivity level 1
- Reverse voltage 75V
- Average forward current 150mA

Application

- High frequency and low voltage rectifier

Mechanical data

- **Package** SOT-363
- **Terminals** Tin plated leads, solderable per J-STD-002 and JESD22-B102

■ **Maximum Ratings** (T_a=25 Unless otherwise specified)

Parameter	Symbol	Unit	Value
Device marking code			KJG
Repetitive peak reverse voltage	V_{RRM}	V	75
Forward current	I_F	mA	150
Non-repetitive Surge peak forward current @ t=8.3ms half-sine wave	I_{FSM}	A	1
Non-repetitive Surge peak forward current @ t=1ms square wave			1.5
Power dissipation	P_D	mW	200
Junction temperature	T_J		-55 to +150
Storage temperature	T_{STG}		-55 to +150

Parameter	Symbol	Unit	Conditions	Min	Typ	Max
Reverse voltage	V_R	V	I_R=0.1mA	75		
Forward voltage	V_{F1}	V	I_F=1mA			0.715
	V_{F2}	V	I_F=10mA			0.855
	V_{F3}	V	I_F=50mA			1
	V_{F4}	V	I_F=150mA			1.25
Reverse leakage current	I_{R1}	uA	V_R=20V			0.025
	I_{R2}	uA	V_R=75V			2.5

■Characteristics

Fig 1 P_D-Ta Curve

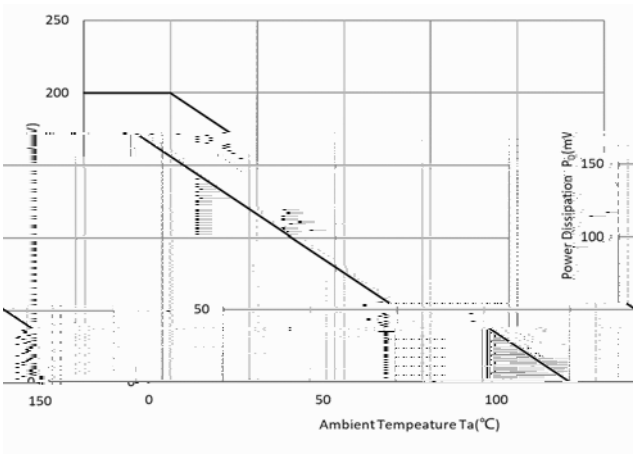


Fig 2 Capacitance Capability

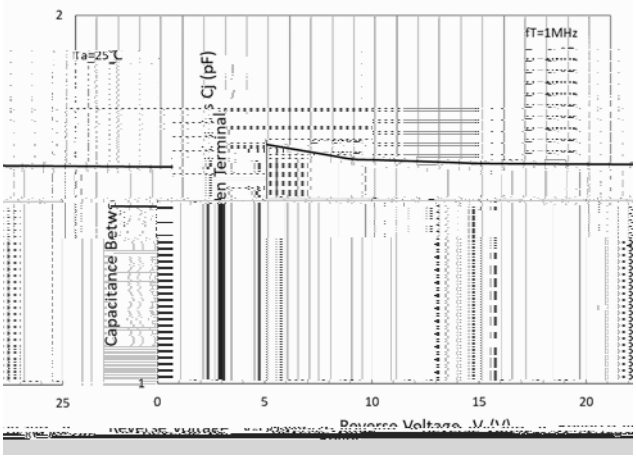


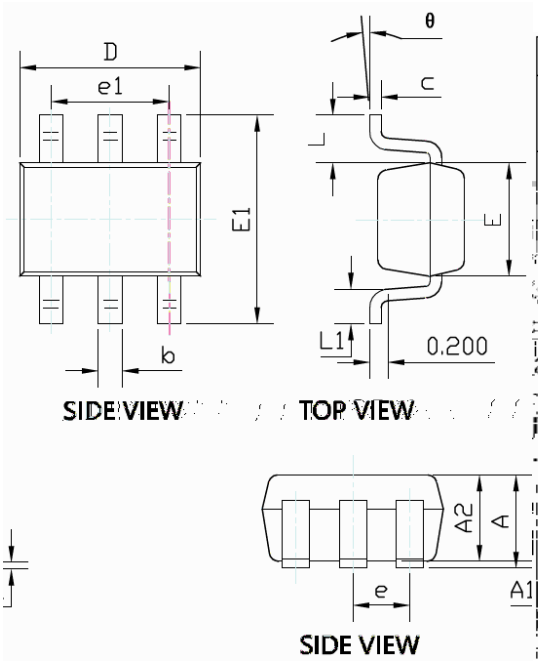
Fig 3 Typical Forward Characteristics

Fig 4 Typical Reverse Characteristics

■Ordering Information

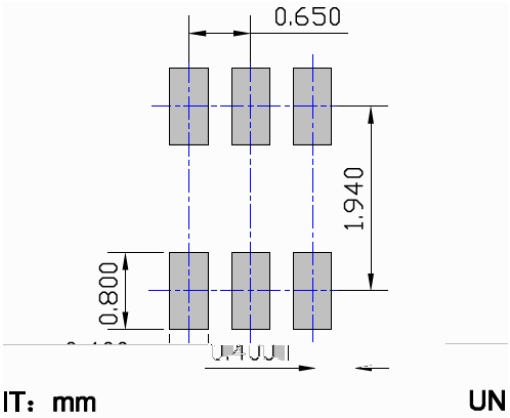
Preferred P/N	Packing code	Unit weight(g)	Minimum package(pcs)	Inner box quantity(pcs)	Outer carton quantity (pcs)	Delivery mode
BAV99DW	F2	Approximate 0.009	3000	30000	120000	7” reel
BAV99DW	F3	Approximate 0.009	10000	/	210000	7” reel

■ Outline Dimensions



DIMENSIONS				
SYMBOL	INCHES		Millimeter	
	MIN.	MAX.	MIN.	MAX.
b				
A1				
c		0.004		
		0.071		
E				
	0.200	0.400		
	0.525REF		0.021REF	
e1				
L	0.260	0.460	0.010	0.018
θ	0°	8°	0°	8°

■ Suggested Pad Layout



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The product listed herein is designed to be used with