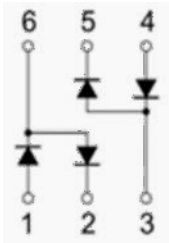




## Small-Signal Fast Switching Diodes



### 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

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



Characteristics

Fig 1 P<sub>D</sub>-T<sub>a</sub> Curve

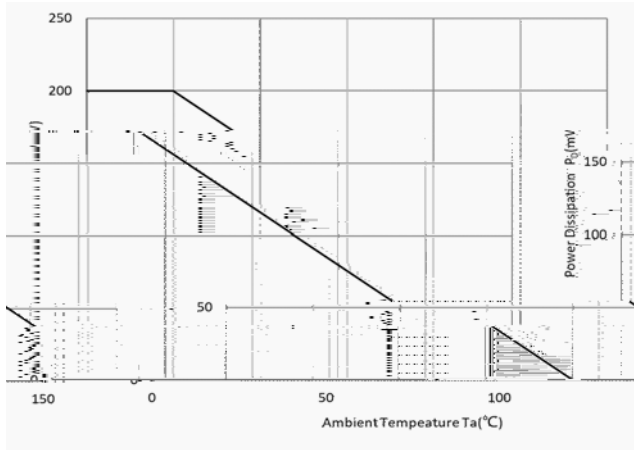


Fig 2 Capacitance Capability

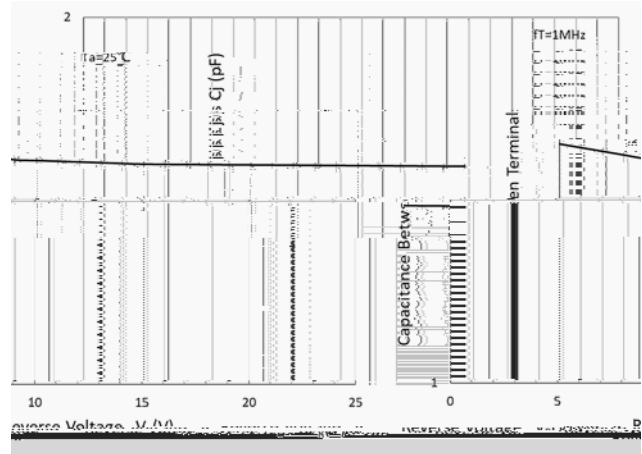


Fig 3 Typical Forward Characteristics

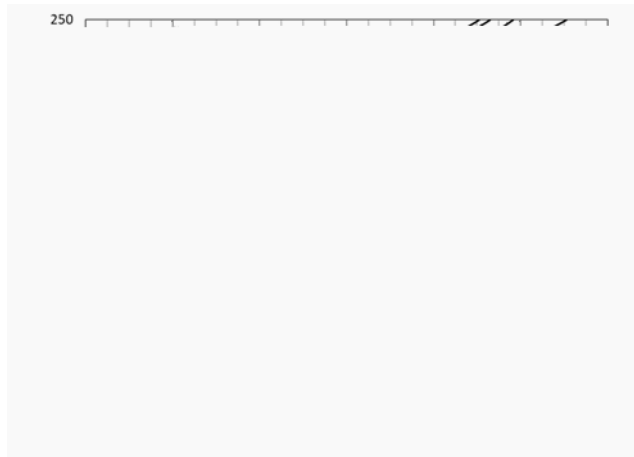
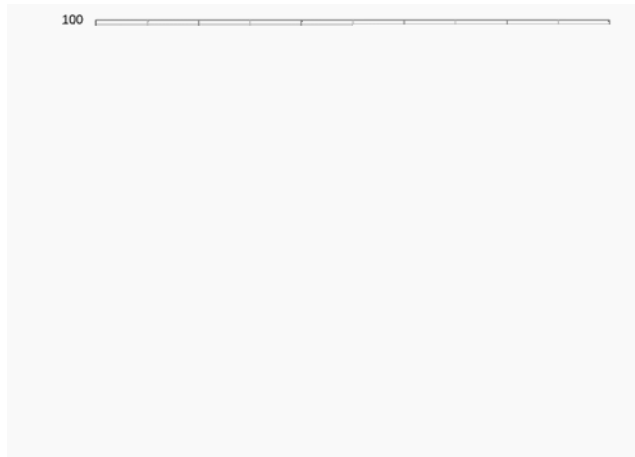


Fig 4 Typical Reverse Characteristics

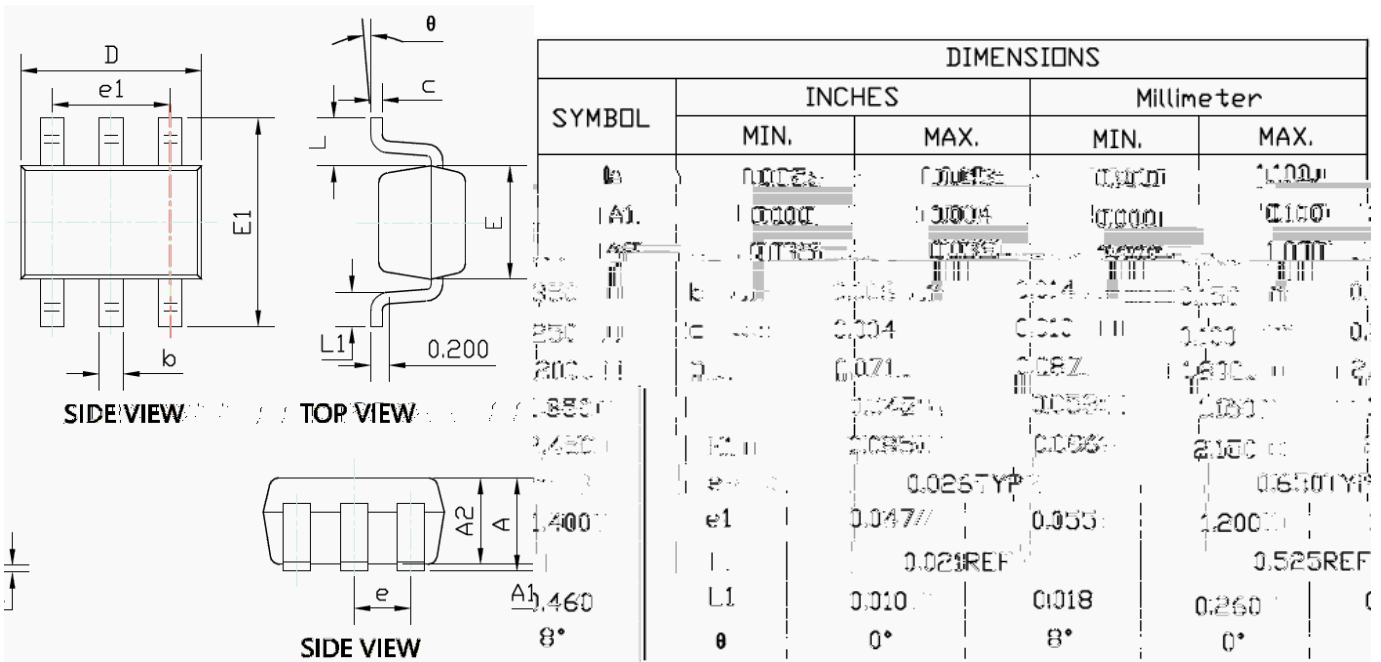




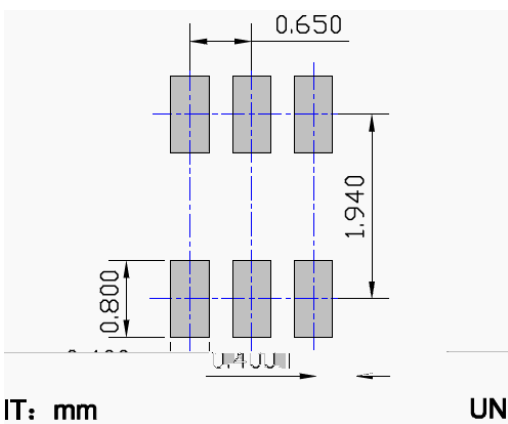
Ordering Information

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



Suggested Pad Layout





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### Disclaimer

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The product listed herein is designed to be used with