

## **Features**

- Low Current Leakage
- Low Cost
- Small Outline Surface Mount Package
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS • Compliant. See Ordering Information)

## **Maximum Ratings**

- Operating Junction Temperature Range: -55° C to+150°C •
- Storage Temperature Range: -55°C to +150°C

## 200mW 75Volt **Plastic-Encapsulate** Diode

SOT-363

B

DIMENSIONS

1.20

1.80

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0.80

0.26

0.08

MM

MIN MAX

0.65 Nominal

0.35

1.35

2.45

1.40

2.20

0.10

1.10

0.46

0.15

NOTE

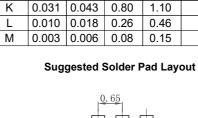
| MCC<br>Part Number                              |                  |       | Device Marking |         |
|---|------------------|-------|----------------|---------|
| BAV99DW   |                  |       | KJG            |         |
| Average<br>Rectified Output<br>Current          | Ι <sub>ο</sub>   | 150mA |                |         |
| Non-Repetitive<br>Peak Forward<br>Surge Current | I <sub>FSM</sub> | 2     | 2.0A           | t=8.3ms |
| Power<br>Dissipation                            | P <sub>TOT</sub> | 20    | 0mW            |         |

## Electrical Characteristics @ 25°C Unless Otherwise Specified

| Reverse Voltage  | V <sub>R</sub>  | 75V                                  |  |
|--|-----------------|--------------------------------------|--|
| Maximum<br>Forward Voltage                                       | V <sub>F</sub>  | 0.715V<br>0.855V<br>1.000V<br>1.250V | I <sub>FM</sub> =1.0mA<br>I <sub>FM</sub> =10.0mA<br>I <sub>FM</sub> =50.0mA<br>I <sub>FM</sub> =150.0mA |
| Maximum DC<br>Reverse Current<br>At Rated DC<br>Blocking Voltage | I <sub>R</sub>  | 2.5µA<br>0.025µA                     | V <sub>R</sub> =75V<br>V <sub>R</sub> =20V   |
| Typical Junction<br>Capacitance                                  | CJ              | 2.0pF                                | V <sub>R</sub> =0.0V,f=1.0MHz  |
| Reverse<br>Recovery Time   | t <sub>rr</sub> | 4.0ns                                | $I_{F}=10mA, I_{R}=10mA$<br>$I_{rr}=0.1*I_{R}, R_{c}=100\Omega$  |

### **Internal Structure**





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INCHES

MIN MAX

0.026

0.047 0.055

0.071 0.087

0.006 0.014 0.15

0.045 0.053 1.15

0.079 0.096 2.00

0.004

DIM

А

В

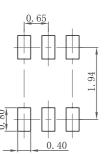
С

D

G

Н

J





## **Curve Characteristics**

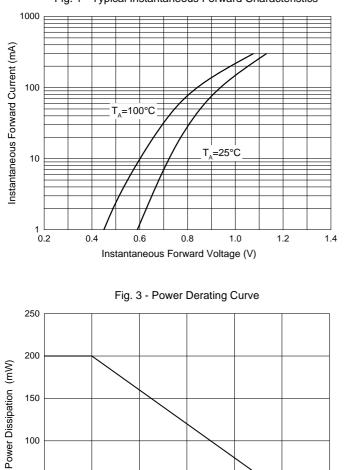


Fig. 1 - Typical Instantaneous Forward Characteristics

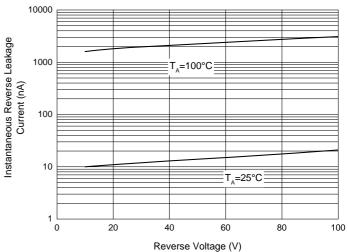


Fig. 2 - Typical Reverse Leakage Characteristics

100

50

0 L 0

25

50

75

Ambient Temperature (°C)

100

125

150



| Device         | Packing               |
|----------------|-----------------------|
| Part Number-TP | Tape&Reel: 3Kpcs/Reel |

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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