查询BAV99W-7-F供应商



BAV99W

SOT-323

Min

0.25

1.15

2.00

0.30

1.20

1.80

0.0

0.90

0.25

0.10

0°

All Dimensions in mm

0.65 Nominal

Max

0.40

1.35

2.20

0.40

1.40

2.20

0.10

1.00

0.40

0.18

8°

Dim

Α

В

С

D

Ε

G

н

J

Κ

L

Μ

α

DECES

DUAL SURFACE MOUNT SWITCHING DIODE

捷多邦,专业PCB打样工厂,24小时加急出货

Features

- Fast Switching Speed
- Ultra-small Surface Mount Package
- For General Purpose Switching Applications
- High Conductance
- Lead Free/RoHS Compliant (Note 3)
- Qualified to AEC-Q101 Standards for High Reliability
- "Green" Device (Note 4 and 5)

Mechanical Data

- Case: SOT-323
- Case Material: Molded Plastic, "Green" Molding Compound, Note 5. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Solderable per MIL-STD-202, Method 208
- Lead Free Plating (Matte Tin Finish annealed over Alloy 42 leadframe).
- Polarity: See Diagram
- Marking: KJG (See Page 3)
- Weight: 0.006 grams (approximate)

Maximum Ratings @ T_A = 25°C unless otherwise specified

| Characteristic | Symbol | Value | Unit | | |
|--|--|-------------|----------|--|--|
| Non-Repetitive Peak Reverse Voltage | V _{RM} | 100 | V | | |
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | V _{RRM} V _{RWM} V _R | 75 | .025C-C0 | | |
| RMS Reverse Voltage | V _{R(RMS)} | 53 | V | | |
| Forward Continuous Current (Note 1) | I _{FM} | 300 | mA | | |
| Average Rectified Output Current (Note 1) | lo | 150 | mA | | |
| Non-Repetitive Peak Forward Surge Current @ t = 1.0µs (Note 1) @ t = 1.0s | I _{FSM} | 2.0 1.0 | А | | |
| Power Dissipation (Note 1) | Pd | 200 | mW | | |
| Thermal Resistance Junction to Ambient Air (Note 1) | R _{0JA} | 625 | °C/W | | |
| Operating and Storage Temperature Range | T _i , T _{STG} | -65 to +150 | °C | | |

Electrical Characteristics @ T_A = 25°C unless otherwise specified

| Characteristic | Symbol | Min | Max | Unit | Test Condition | |
|------------------------------------|--------------------|-----|-------------------------------|----------------------|---|--|
| Reverse Breakdown Voltage (Note 2) | V _{(BR)R} | 75 | | V | I _R = 2.5μA | |
| Forward Voltage | VF | | 0.715 0.855 1.0 1.25 | V | $\begin{array}{l} I_F = 1.0mA \\ I_F = 10mA \\ I_F = 50mA \\ I_F = 150mA \end{array}$ | |
| Reverse Current (Note 2) | I _R | | 2.5 50 30 25 | μΑ μΑ μΑ nA | $ \begin{array}{l} V_{R} = 75V \\ V_{R} = 75V, \ T_{j} = 150^{\circ}C \\ V_{R} = 25V, \ T_{j} = 150^{\circ}C \\ V_{R} = 20V \end{array} $ | |
| Total Capacitance | Ст | | 2.0 | pF | $V_{R} = 0, f = 1.0MHz$ | |
| Reverse Recovery Time | t _{rr} | | 4.0 | ns | $\label{eq:IF} \begin{array}{l} I_F = I_R = 10 m A, \\ I_{rr} = 0.1 \ x \ I_R, \ R_L = 100 \Omega \end{array}$ | |

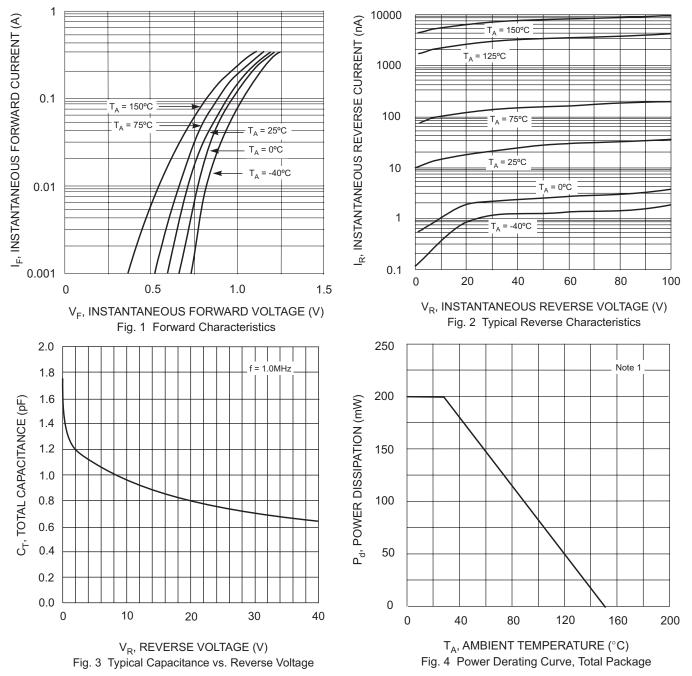


1. Device mounted on FR-4 PC board with recommended pad layout, which can be found on our website at http://www.diodes.com/datasheets/ap02001.pdf.

No purposefully added lead.
Diodes Inc.'s "Green" policy can be found on our website at http://www.diodes.com./products/lead_free/index.php.

df.dzs5, Ceroduct manufactured with Date Code 0609 (week 9, 2006) and newer are built with Green Molding Compound. Product manufactured prior to Date Code 0609 are built with Non-Green Molding Compound and may contain Halogens or Sb2O3 Fire Retardants.







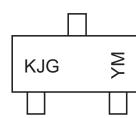
Ordering Information (Note 5 & 6)

| Device | Packaging | Shipping | | | |
|------------|-----------|------------------|--|--|--|
| BAV99W-7-F | SOT-323 | 3000/Tape & Reel | | | |

Notes: 5. Product manufactured with Date Code 0609 (week 9, 2006) and newer are built with Green Molding Compound. Product manufactured prior to Date Code 0609 are built with Non-Green Molding Compound and may contain Halogens or Sb2O3 Fire Retardants.

6. For Packaging Details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

Marking Information



KJG = Product Type Marking Code YM = Date Code Marking Y = Year ex: N = 2002M = Month ex: 9 = September

Date Code Key

| Year | 2000 | 2001 | 2002 | 200 | 3 | 2004 | 2005 | 2006 | 2007 | 2008 | 200 | 9 2010 | 2011 | 2012 |
|------|------|------|------|-------|-----|------|------|------|------|------|-----|--------|------|------|
| Code | L | М | Ν | Р | | R | S | Т | U | V | W | Х | Y | Z |
| Mont | h | Jan | Feb | March | Арі | r M | ay | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| Code | ; | 1 | 2 | 3 | 4 | | 5 | 6 | 7 | 8 | 9 | 0 | Ν | D |

IMPORTANT NOTICE

Diodes Incorporated and its subsidiaries reserve the right to make modifications, enhancements, improvements, corrections or other changes without further notice to any product herein. Diodes Incorporated does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold Diodes Incorporated and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

Diodes Incorporated products are not authorized for use as critical components in life support devices or systems without the expressed written approval of the President of Diodes Incorporated.