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BAV70W

DUAL SURFACE MOUNT SWITCHING DIODE

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: KJA (See Page 3)
- Weight: 0.006 grams (approximate)

Maximum Ratings @ TA = 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	LSC.CV
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 @ $t = 1.0 \mu s$ (Note 1) @ $t = 1.0 s$	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 _j , T _{STG}	-65 to +150	°C

Electrical Characteristics @ $T_A = 25^{\circ}C$ unless otherwise specified

Characteristic	Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 2)	V _{(BR)R}	75		V	I _R = 100μA
Forward Voltage	V _F	9-	0.715 0.855 1.0 1.25	v	I _F = 1.0mA I _F = 10mA I _F = 50mA I _F = 150mA
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	CT		2.0	pF	V _R = 0, f = 1.0MHz
Reverse Recovery Time	t _{rr}		4.0	ns	$\label{eq:lf} \begin{array}{l} I_F = I_R = 10 m A, \\ I_{rr} = 0.1 \ x \ I_R, \ R_L = 100 \Omega \end{array}$

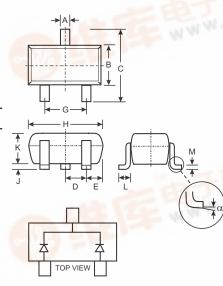
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1. Mounted on FR4 PC Board with recommended pad layout which can be found on our website at http://www.diodes.com/datasheets/ap02001.pdf.

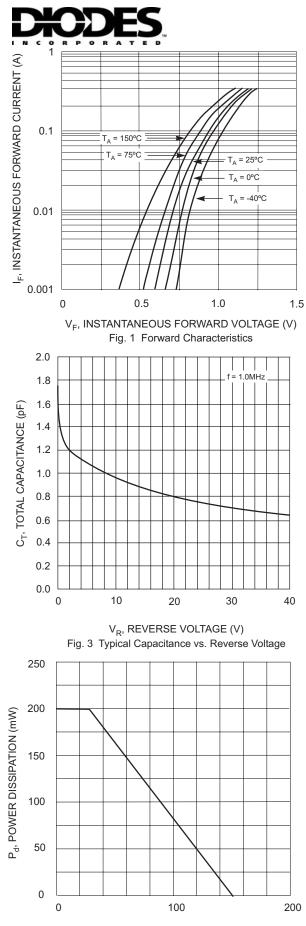
3-No purposefully added lead.

🗛 Diodes Inc.'s "Green" policy can be found on our website at http://www.diodes.com./products/lead_free/index.php.

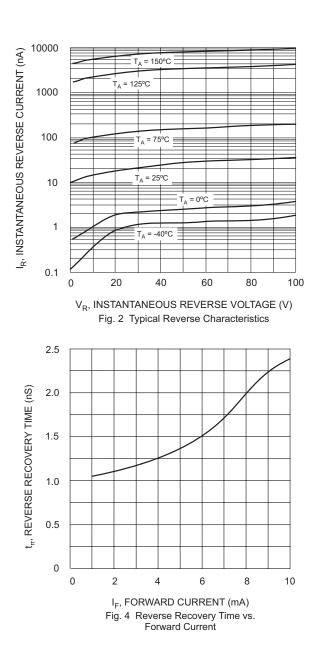
5. Product manufactured with Date Code 0609 (week 9, 2006) and newer are built with Green Molding Compound. Product manufactured prior to Date



Man								
SOT-323								
Dim	Min	Max						
Α	0.25	0.40						
в	1.15	1.35						
С	2.00	2.20						
D	0.65 Nominal							
Е	0.30	0.40						
G	1.20	1.40						
н	1.80	2.20						
J	J 0.0 0.10							
К	0.90	1.00						
L	0.25	0.40						
М	0.10	0.18						
α	0°	8°						
All Dimensions in mm								









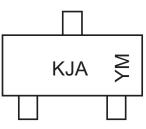
Ordering Information (Note 5 & 6)

Γ	Device	Packaging	Shipping			
	BAV70W-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



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

Date Code Key

Year	2000	2001	2002	2003	2004	2005	2006	2007	200	8 20	09 20	10 2011	2012
Code	L	М	Ν	Р	R	S	Т	U	V	\	v >		Z
Month	Jan	Feb	Marc	h Ap	r Ma	y Ju	n J	ul	Aug	Sep	Oct	Nov	Dec
Code	1	2	3	4	5	6		7	8	9	0	N	D

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