



BAV99BRW

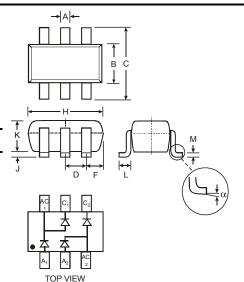
QUAD SURFACE MOUNT SWITCHING DIODE ARRA

Features

- Fast Switching Speed
- Ultra-Small Surface Mount Package
- For General Purpose Switching Applications
- High Conductance
- Two "BAV99" Circuits In One Package
- Easily Connected As Full-Wave Bridge
- Lead Free/RoHS Compliant (Note 3)
- "Green" Device (Note 4 and 5)

Mechanical Data

- Case: SOT-363
- Case Material: Molded Plastic. 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 Information: KGJ (See Page 2)
- Weight: 0.006 grams (approximate)



	SOT-363									
Dim	Min	Max								
Α	0.10	0.30								
В	1.15	1.35								
С	2.00	2.20								
D	0.65 Nominal									
F	0.30	0.40								
Н	1.80	2.20								
J	_	0.10								
K	0.90	1.00								
L	0.25	0.40								
М	0.10	0.25								
α	0°	8°								
All Dimensions in mm										

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	v
RMS Reverse Voltage		V _{R(RMS)}	53	V
Forward Continuous Current	(Note 1)	I _{FM}	300	mA
Average Rectified Output Current	(Note 1)	Io	150	mA
Non-Repetitive Peak Forward Surge Current	@ t = 1.0μs @ t = 1.0s	I _{FSM}	2.0 1.0	A
Power Dissipation	(Note 1)	P_d	200	mW
Thermal Resistance Junction to Ambient Air	(Note 1)	$R_{ heta JA}$	625	°C/W
Operating and Storage Temperature Range		T _j , T _{STG}	-65 to +150	°C

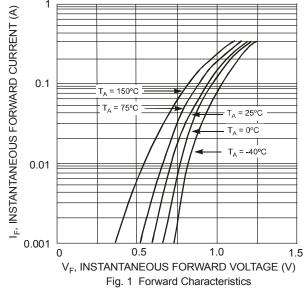
Electrical Characteristics @TA = 25°C unless otherwise specified

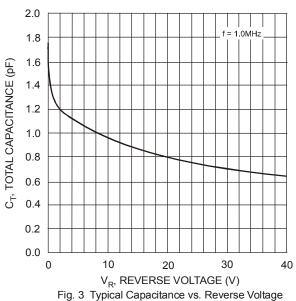
Characteristic	Symbol Min		Max	Unit	Test Condition	
Reverse Breakdown Voltage	(Note 2)	$V_{(BR)R}$	75	_	٧	$I_R = 2.5 \mu A$
		V _F		0.715		I _F = 1.0mA
Forward Voltage				0.855	V	$I_F = 10mA$
Forward voilage				1.0	v	$I_F = 50 \text{mA}$
				1.25		I _F = 150mA
		I _R	_	2.5	μΑ	V _R = 75V
Reverse Current	(Note 2)			50	μA	V _R = 75V, T _i = 150°C
Reverse Current				30	μA	V _R = 25V, T _i = 150°C
				25	nA	V _R = 20V
Total Capacitance		C _T	_	2.0	pF	V _R = 0, f = 1.0MHz
Dayarra Daggyany Tima			_	4.0	200	$I_F = I_R = 10 \text{mA},$
Reverse Recovery Time		t _{rr}			ns	$I_{rr} = 0.1 \times I_{R}, R_{I} = 100\Omega$

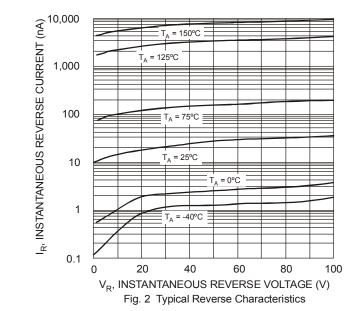
Notes:

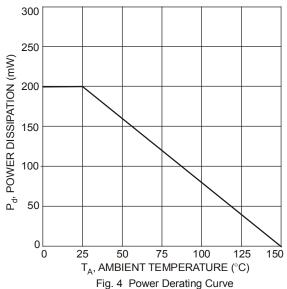
- 1. Device mounted on FR-4 PC board with recommended pad layout, which can be found on our website at http://www.diodes.com/datasheets/ap02001.pdf.
- Short duration pulse test used to minimize self-heating effect.
- 3. No purposefully added lead.
- Diodes Inc.'s "Green" policy can be found on our website at http://www.diodes.com/products/lead_free/index.php.
- Product manufactured with Date Code UO (week 40, 2007) and newer are built with Green Molding Compound. Product manufactured prior to Date Code UO are built with Non-Green Molding Compound and may contain Halogens or Sb2O3 Fire Retardants.









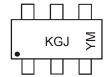


Ordering Information (Note 6)

Device	Packaging	Shipping			
BAV99BRW-7-F	SOT-363	3000/Tape & Reel			

Notes: 6. For packaging details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

Marking Information



KGJ = Product Type Marking Code YM = Date Code Marking

Y = Year ex: N = 2002

M = Month ex: 9 = September

Date Code Key

Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2111	2012
Code	М	N	Р	R	S	Т	U	V	W	Х	Y	Z
	_					_						

_	_	_	_		_	_					_	_
Month	Jan	Feb	March	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Code	1	2	3	4	5	6	7	8	9	0	N	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.