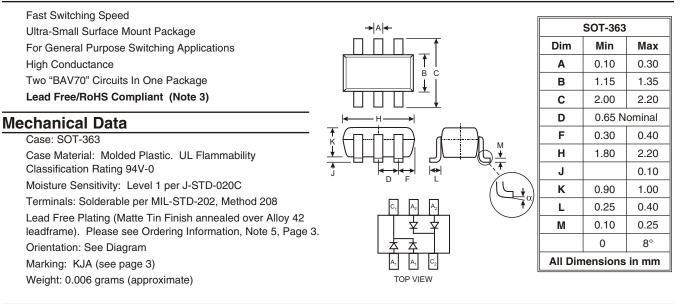




QUAD SURFACE MOUNT SWITCHING DIODE ARRAY

Features



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)	IFM	300	mA	
Average Rectified Output Current (Note 1)	Ι _Ο	150	mA	
Non-Repetitive Peak Forward Surge Current @ t = 1.0 s @ 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 _{JA}	625	°C/W	
Operating and Storage Temperature Range	T _i , T _{STG}	-65 to +150	С	

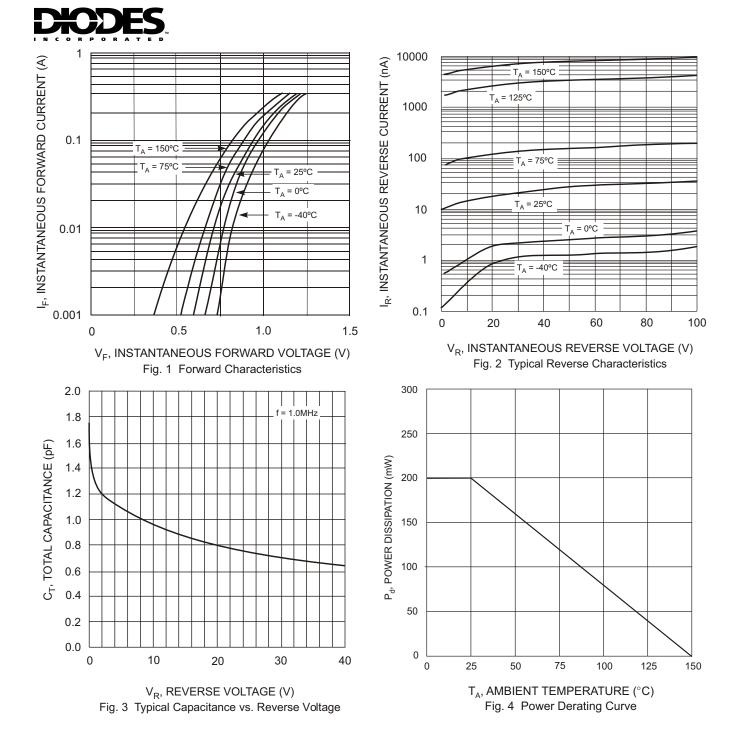
Electrical Characteristics @ T_A = 25 C unless otherwise specified

Characteristic	Symbol Min		Max	Unit	Test Condition		
Reverse Breakdown Voltage (Note 2)	V _{(BR)R}	75		V	I _F = 2.5 A		
Forward Voltage	VF		0.715 0.855 1.0 1.25	V	$ \begin{array}{l} I_F = 1.0 mA \\ I_F = 10 mA \\ I_F = 50 mA \\ I_F = 150 mA \end{array} $		
Reverse Current (Note 2)	I _R		2.5 50 30 25	A A A nA	$ \begin{array}{l} V_{R}=75V \\ V_{R}=75V, \ T_{j}=150 \ C \\ V_{R}=25V, \ T_{j}=150 \ 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	$I_F = I_R = 10 \text{mA},$ $I_{rr} = 0.1 \text{ x } I_R, R_L = 100$		

Notes: 1. Device mounted on FR-4 PCB, 1 inch x 0.85 inch x 0.062 inch; pad layout as shown on Diodes Inc. suggested pad layout document AP02001, which can be found on our website at http://www.diodes.com/datasheets/ap02001.pdf.

Short duration test pulse used to minimize self-heating effect.

3. No purposefully added lead.



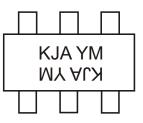


Ordering Information (Note 4)

Device	Packaging	Shipping		
BAV70DW-7-F	SOT-363	3000/Tape & Reel		

Notes: 4. 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 = 2002 M = Month ex: 9 = September

Date Code Key

Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Code	М	Ν	Р	R	S	Т	U	V	W	Х	Y	Z
Month	Jan	Feb	March	Apr	Мау	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.