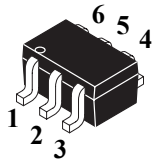
WEITRON

BAV70DW	BAV99DW
BAV756DW	BAW567DW
BAV99BRW	BAW56DW

Surface Mount Switching Multi-Chip Diode Array

Pb Lead(Pb)-Free

MULTI-CHIP DIODES
150m AMPERES
75 VOLTS



SOT-363

Features:

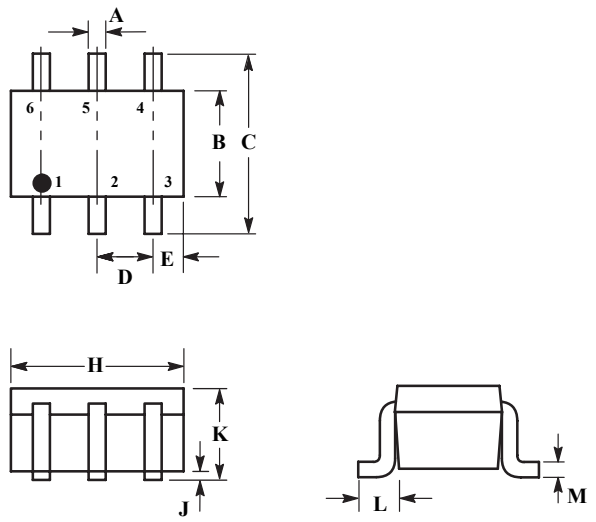
* For General Purpose Switching Applications
* Fast Switching Speed
* High Conductance
* Easily Connected As Full Wave Bridge

Mechanical Data:

* Case : SOT-363
* Case Material : Molded Plastic. UL Flammability Classification Ration 94V-0
* Moisture Sensitivity : Level 1 per J-STD-020C
* Terminals : Solderable per MIL-STD-202, Method 208
* Polarity : See Diagram
* Weight : 0.006 grams(appro)

SOT-363 Outline Dimensions

Unit:mm



SOT-363		
Dim	**Min**	**Max**
A	0.10	0.30
B	1.15	1.35
C	2.00	2.20
D	0.65 REF	
E	0.30	0.40
H	1.80	2.20
J	-	0.10
K	0.80	1.10
L	0.25	0.40
M	0.10	0.25

Maximum Ratings (T_A=25°C Unless otherwise noted)

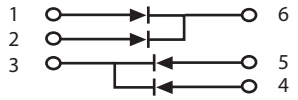
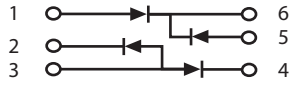
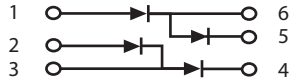
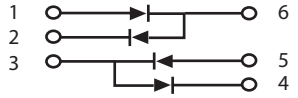
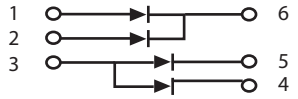
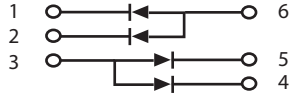
Characteristic	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	100	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RM} V_R	75	V
RMS Reverse Voltage	$V_{R(RSM)}$	53	V
Average Rectified Output Current(1,3)	I_O	150	mA
Non-Repetitive Forward Current @t=1.0μs @t=1.0s	I_{FSM}	 2.0 1.0	A
Power Dissipation(1,3)	P_D	200	mW
Thermal Resistance, Junction to Ambient Air(1,3)	$R_{\theta JA}$	625	°C/W
Junction & Storage Temperature Range	Tj,Tstg	-65 to +150	°C

Electrical Characteristics (T_A=25°C Unless otherwise noted)

Characteristic	Symbol	Min	Typ	Max	Unit
Reverse Breakdown Voltage(2) I_R=2.5μA	$V_{(BR)R}$	75	-	-	A
Reverse Current(2) V_R=75V V_R=20V	I_R	-	-	 2.5 25	 μA nA
Forward Voltage(2) I_F=1mA I_F=10mA I_F=50mA I_F=150mA	V_F	-	-	 715 855 1000 1250	 mA
Total Capacitance (VR=0V, f=1.0MHz)	C_D	-	-	2.0	pF
Reverse Recover Time $I_F = I_R$ = 10mA, I_{rr} = 0.1 x I_R, R_L = 100Ω	T_{rr}	-	-	4.0	nS

Notes: 1. Device mounted on FR-4 PC board with recommended pad layout,.
2. Short duration test pulse used to minimize self-heating effect.
3. One or more diodes loaded.

Device Marking

Item	Marking	Eqivalent Circuit diagram
BAV70DW	KJA	
BAV756DW	KCA	
BAV99BRW	KGJ	
BAV99DW	KJG	
BAW567DW	KAC	
BAW56DW	KJC	

Typical Characteristics

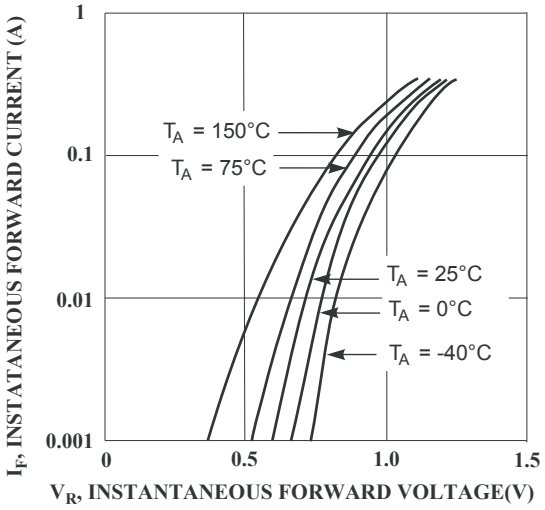


Fig.1 Forward Characteristics

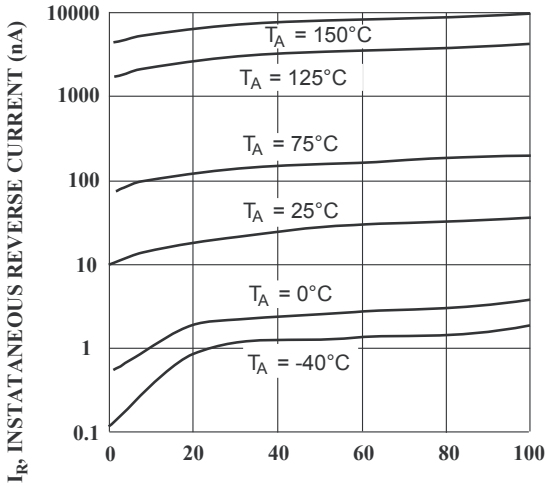


Fig.2 Typical Reverse Characteristics

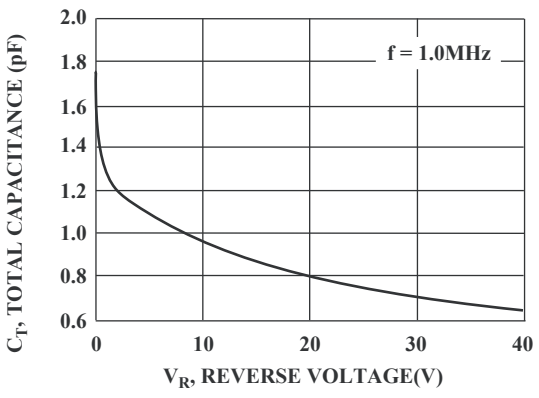


Fig.3 Typical Capacitance vs. Reverse Voltage

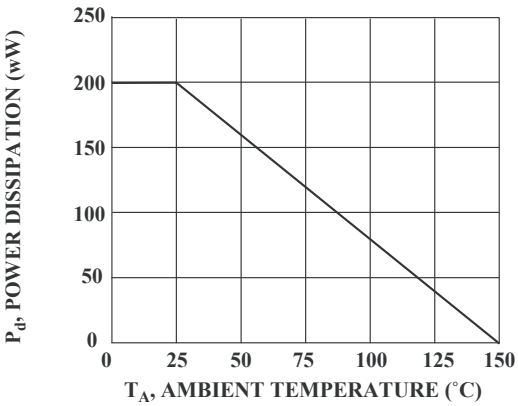


Fig.4 Power Derating Curve