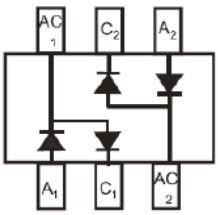
Surface Mount Fast Switching Diodes BAV199DW

FEATURES

- Fast switching speed.
- For general purpose switching application.
- Ultra-small surface mount package.

Lead-free



SOT-363

APPLICATIONS

- For general purpose switching application.

ORDERING INFORMATION

Type No.	Marking	Package Code
BAV199DW	K52	SOT-363

MAXIMUM RATING @ Ta=25℃ unless otherwise specified

Symbol	**Characteristic**	**Value**	**Unit**
V_R	DC reverse voltage	85	V
I_{FM}	Forward continuous current	200	mA
I_O	Average rectified output current	150	mA
P_D	Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	625	℃/W
T_j, T_{stg}	Junction and Storage Temperature	-65 to+150	℃

ELECTRICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

Surface Mount Fast Switching Diodes BAV199DW

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	$V_{(BR)R}$	I_R=100μA	85	-	V
Forward voltage	V_F	I_F=1.0mA I_F=10mA I_F=50mA I_F=150mA	-	0.9 1.0 1.1 1.25	V
Junction Capacitance	C_J	V_R=0V,f=1.0MHz	-	2.0	pF
Reverse Recovery time	t_{rr}	I_F=I_R=10mA,I_{rr}=0.1*I_R,R_L=100Ω	-	3.0	ns

TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

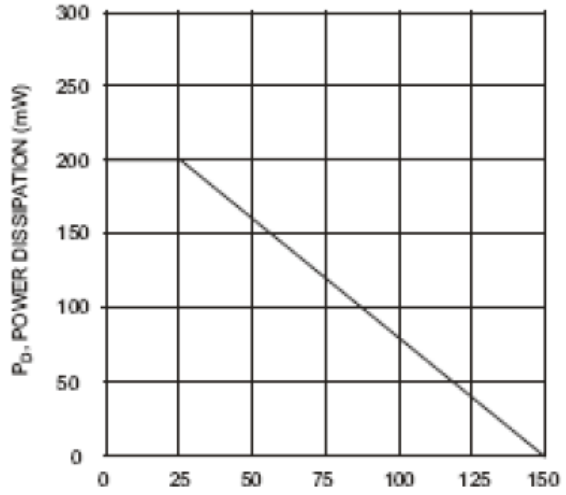


Fig. 1 Power Derating Curve

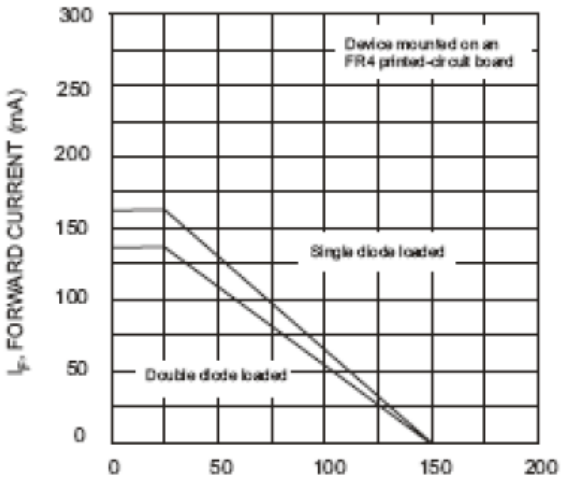


Fig. 2 Current Derating Curve

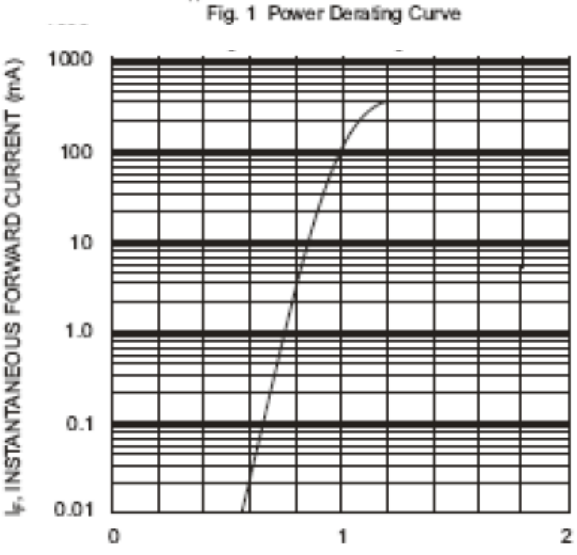


Fig. 3 Typical Forward Characteristics

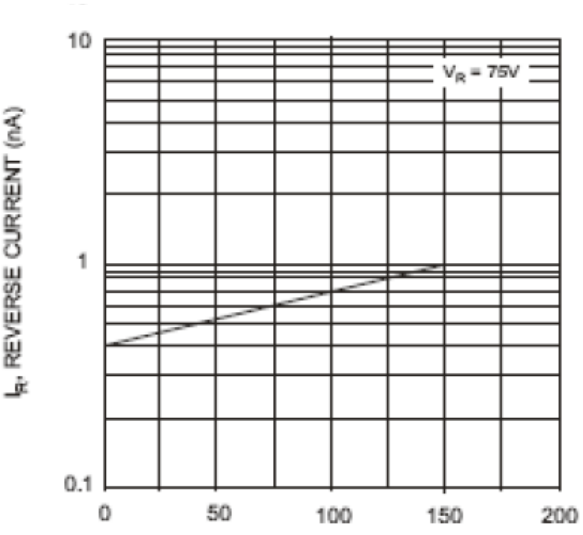
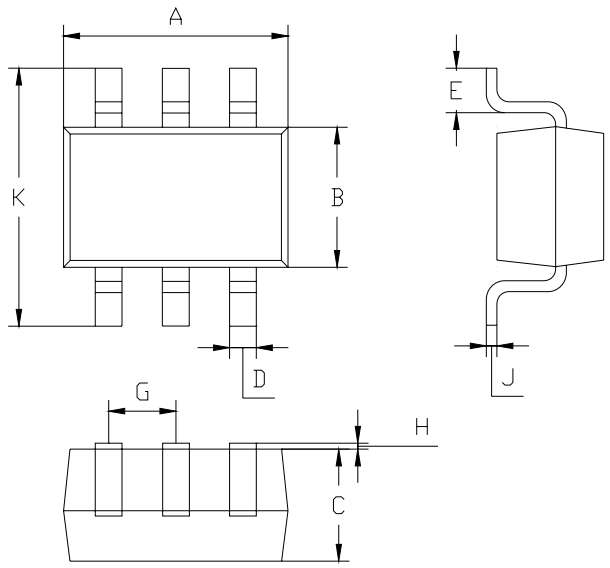


Fig. 4 Typical Reverse Characteristics

Surface Mount Fast Switching Diodes BAV199DW

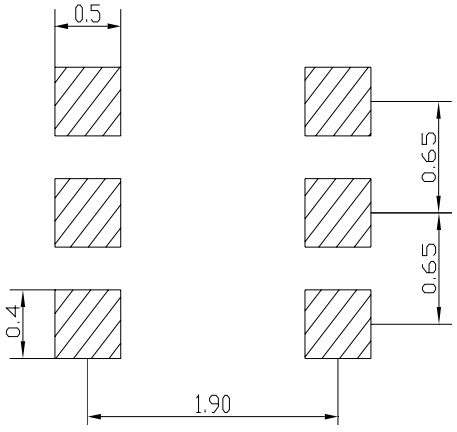
PACKAGE OUTLINE

Plastic surface mounted package SOT-363



SOT-363		
Dim	Min	Max
A	1.8	2.2
B	1.15	1.35
C	1.0Typical	
D	0.10	0.30
E	0.25	0.40
G	0.65Typical	
H	0.02	0.10
J	0.1Typical	
K	2.1	2.3
All Dimensions in mm		

SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
BAV199DW	SOT-363	3000/Tape&Reel