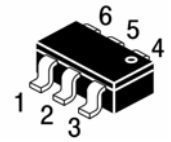
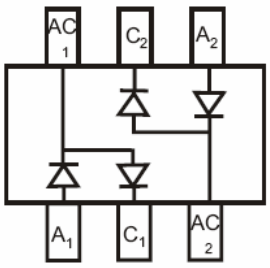
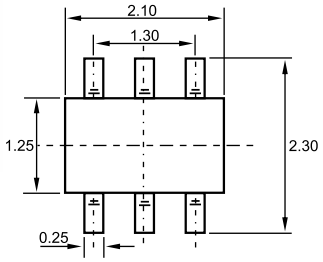
BAV99DW

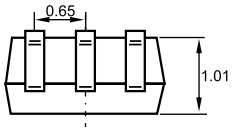
Surface Mount Fast Switching Diodes





SOT-363





Dimensions in inches and (millimeters)

Features

- ✧ Fast switching speed.
- ✧ For general purpose switching application
- ✧ Ultra-small surface mount package.
- ✧ High conductance.
- ✧ Two “BAV99”circuits in one package.

Applications

- ✧ For general purpose switching application.

Ordering Information

Type No.	Marking	Package Code
BAV99DW	KJG	SOT-363

MAXIMUM RATING @ Ta=25℃ unless otherwise specified

Symbol	Characteristic	Value	Unit
V_{RM}	Non-repetitive peak reverse voltage	100	V
V_{RRM} V_{RWM} V_R	Peak repetitive reverse voltage Working peak reverse voltage DC reverse voltage	75	V
$V_{R(RMS)}$	RMS Reverse voltage	53	V
I_{FM}	Forward continuous current	215	mA
I_{FSM}	Non-repetitive peak forward surge current @t=1.0μs @t=1.0ms @t=1.0s	 2.0 1.0 0.5	A
P_D	Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	417	℃/W
T_j, T_{stg}	Junction and Storage Temperature	-65 to+150	℃

BAV99DW

Surface Mount Fast Switching Diodes

ELECTRICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	$V_{(BR)R}$	I_R=2.5μA	75	-	V
Forward voltage	V_F	I_F=1.0mA I_F=10mA I_F=50mA I_F=150mA	-	0.715 0.855 1.0 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	-	4.0	ns

TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

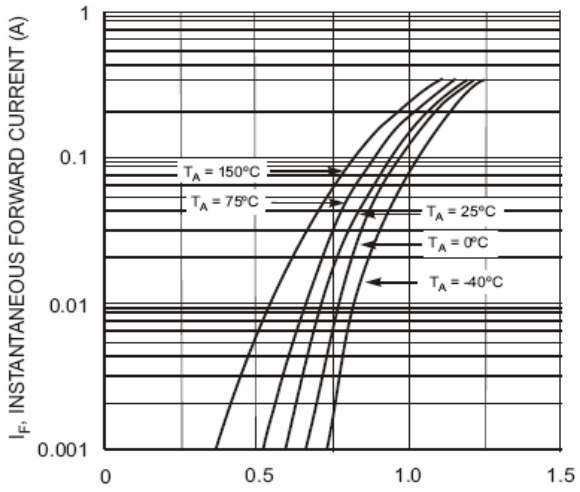


Fig. 1 Forward Characteristics

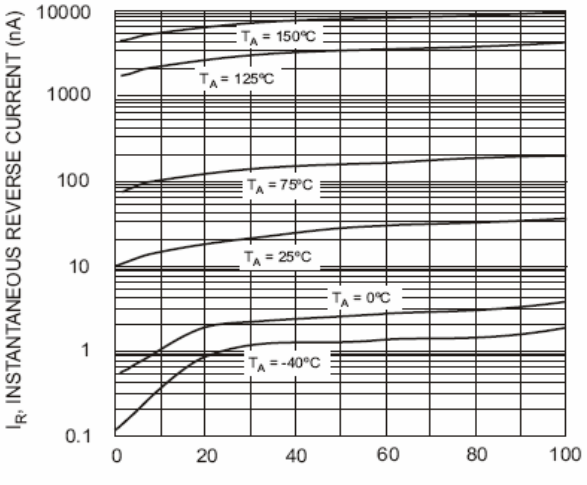


Fig. 2 Typical Reverse Characteristics

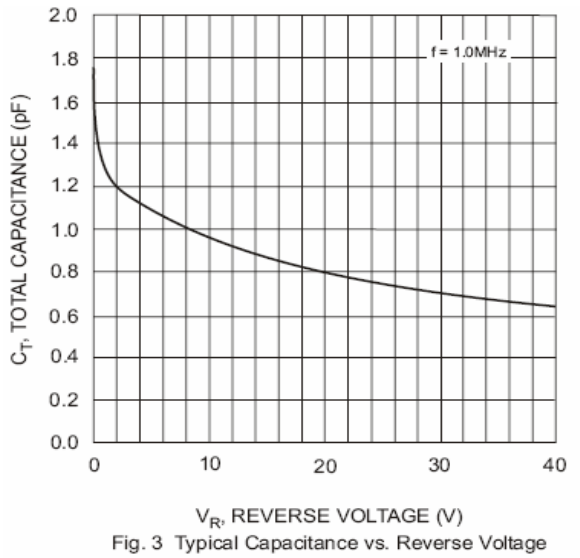


Fig. 3 Typical Capacitance vs. Reverse Voltage

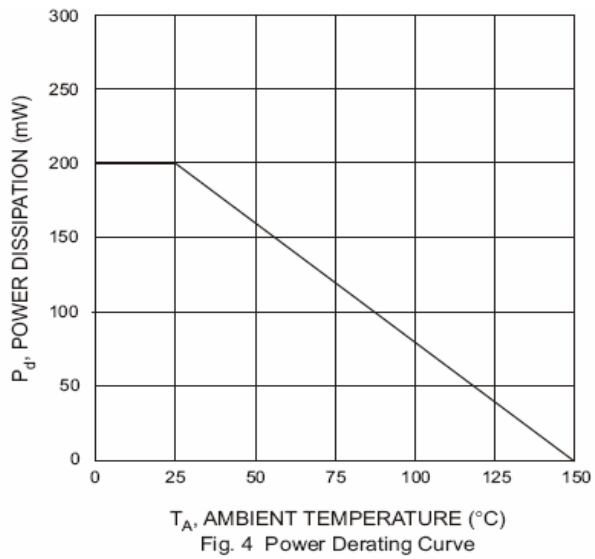


Fig. 4 Power Derating Curve