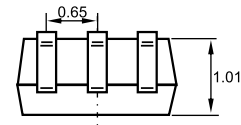
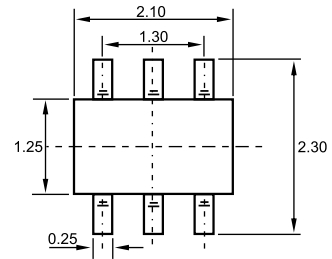


### SOT-363



Dimensions in inches and (millimeters)

### Features

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

### Applications

- ✧ For general purpose switching application.

### Ordering Information

Type No.	Marking	Package Code
BAV99BRW	KGJ	SOT-363

### MAXIMUM RATING @ Ta=25°C 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
$I_F$	Forward continuous current	300	mA
$I_O$	Average rectified output current	150	A
$I_{FSM}$	Non-Repetitive Peak Forward Surge Current @t=1.0us @t=1.0s	2.0 1.0	A
$P_D$	Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	625	°C/W
$T_j, T_{stg}$	Junction and Storage Temperature	-65 to +150	°C

### ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	$V_{(BR)R}$	$I_R=2.5\mu A$	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
Reverse current	$I_R$	$V_R=75V$ $V_R=75V, T_j=150^\circ C$ $V_R=25V, T_j=150^\circ C$ $V_R=20V$		2.5 50 30 25	$\mu A$ $\mu A$ $\mu A$ nA
Total Capacitance	$C_J$	$V_R=0V, f=1.0MHz$		2.0	pF
Reverse Recovery time	$t_{rr}$	$I_F=I_R=10mA, I_{rr}=0.1 \cdot I_R,$ $R_L=100\Omega$		4.0	ns

### TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

