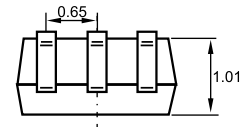
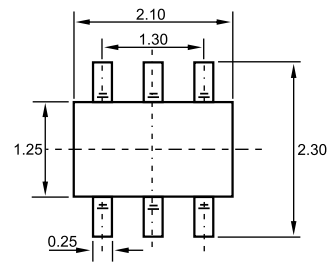


### SOT-363



Dimensions in inches and (millimeters)

### Features

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

### Applications

- ✧ For general purpose switching application.

### Ordering Information

Type No.	Marking	Package Code
BAV199DW	K52	SOT-363

### MAXIMUM RATING @ Ta=25°C 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	°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	$V_{(BR)R}$	$I_R=100\mu A$	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	$t_{rr}$	$I_F=I_R=10mA, I_{rr}=0.1*I_R, R_L=100\Omega$	-	3.0	ns

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

