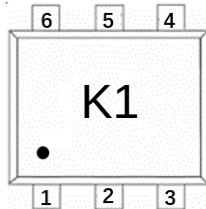


Features

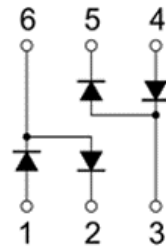
- Small Plastic Package
- High Switching Speed
- Low Capacitance
- Two Electrically Isolated Series Configuration Arrays



Marking and pin assignment



SOT-363 top view



Schematic diagram



Halogen-Free

MAXIMUM RATINGS @(Ta=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V_R	Reverse Voltage	75	V
V_{RRM}	Working Peak Reverse Voltage	85	
I_F	Forward Current	150	mA
I_{FRM}	Repetitive Peak Forward Current	450	mA
I_{FSM}	Non-Repetitive Peak Forward Surge Current @t=8.3ms	2.5	A
P_D	Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance Junction to Ambient	625	°C/W
T_J, T_{STG}	Operating and Storage Temperature Range	-55~ +150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

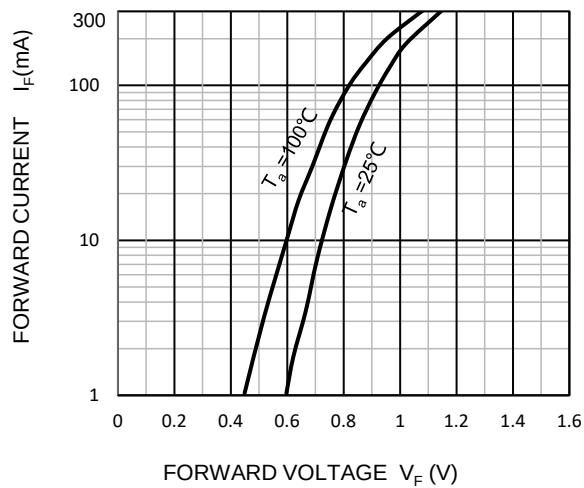
Symbol	Parameter	Condition	Min	Typ	Max	Unit
$V_{(BR)}$	Reverse voltage	$I_R=100\mu A$	75	--	--	V
I_R	Reverse current	$V_R=75V$	--	--	1	μA
V_F	Forward voltage	$I_F=1mA$	--	--	0.715	V
		$I_F=10mA$	--	--	0.855	V
		$I_F=50mA$	--	--	1.000	V
		$I_F=150mA$	--	--	1.250	V
C_T	Capacitance between terminals	$V_R=0, f=1MHz$	--	--	1.5	pF
t_{rr}	Reverse recovery time	$I_F=I_R=10mA, I_{rr}=0.1X I_R, R_L=100\Omega$	--	--	6	ns

Ordering Information (Example)

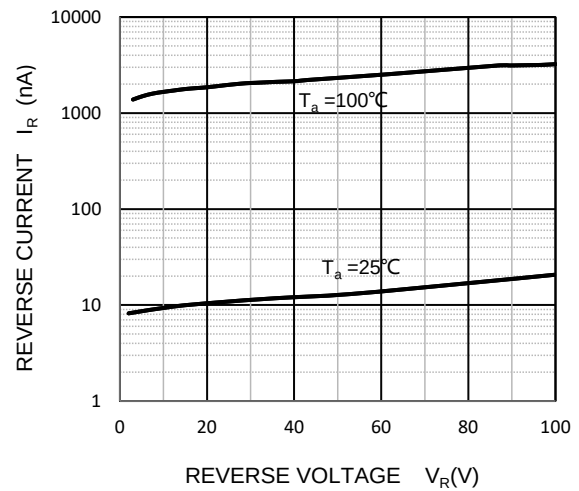
Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
BAV99S	SOT-363	K1	3,000	45,000	180,000	7"reel

Typical Operating Characteristics

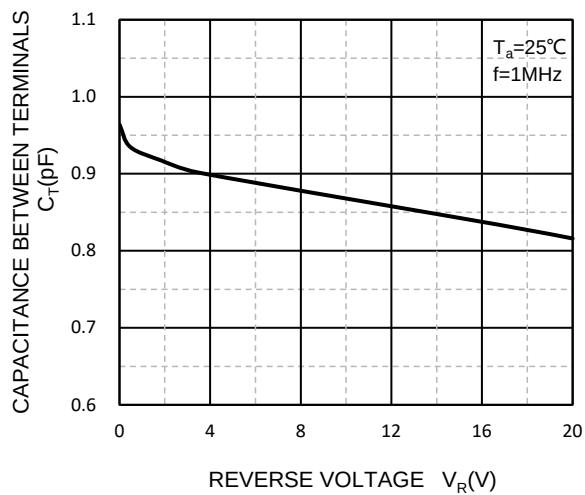
Forward Characteristics



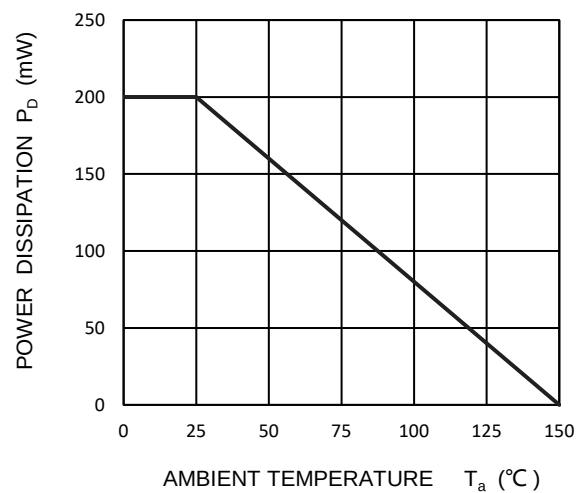
Reverse Characteristics



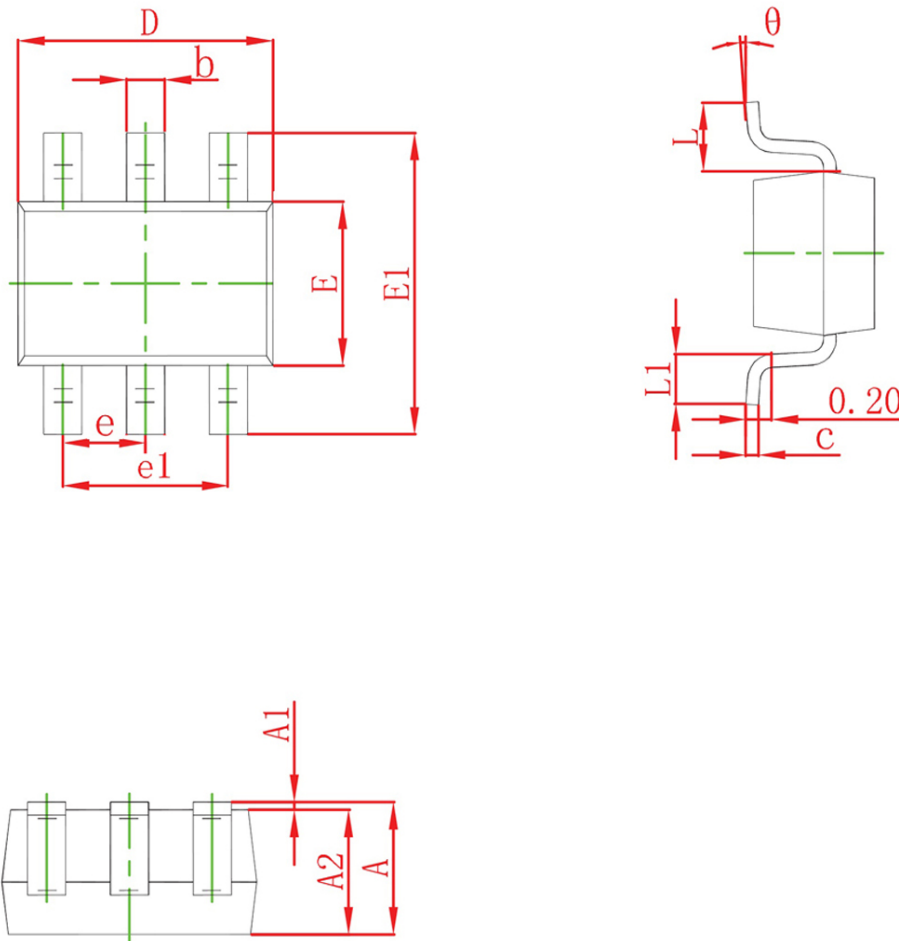
Capacitance Characteristics



Power Derating Curve



SOT-363 Package information



Symbol	Dimensions in Millimeters(mm)		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.150	0.350	0.006	0.014
c	0.100	0.150	0.004	0.006
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	2.150	2.400	0.085	0.094
e	0.650TYP		0.026TYP	
e1	1.200	1.400	0.047	0.055
L	0.525REF		0.021REF	
L1	0.260	0.460	0.010	0.018
θ	0°	8°	0°	8°