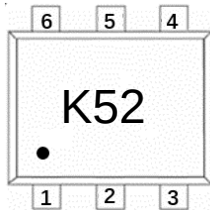


Features

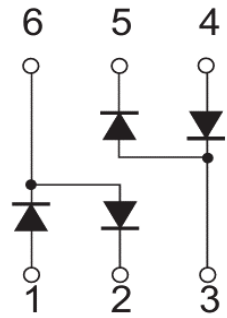
- Surface Mount Package Ideally Suited for Automatic Insertion
- Very Low Leakage Current



Marking and pin assignment



SOT-363 top view



Schematic diagram



Halogen-Free

Maximum Ratings and Electrical Characteristics, Single Diode@Ta=25°C

Symbol	Parameter	Value	Unit
V_R	Peak Repetitive Peak Reverse Voltage	85	V
V_{RRM}	Working Peak Reverse Voltage		
V_{RWM}	DC Blocking Voltage		
I_O	Average Rectified Output Current	160	mA
I_{FSM}	Non-Repetitive Peak Forward Surge Current @t=8.3ms	1	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)

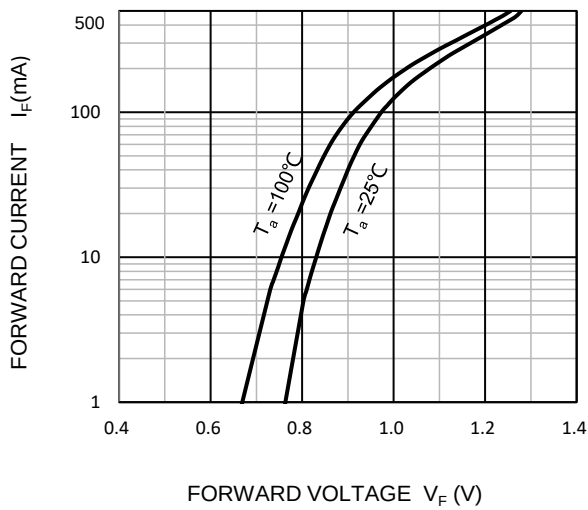
Symbol	Parameter	Condition	Min	Typ	Max	Unit
$V_{(BR)}$	Reverse voltage	$I_R=100\mu A$	85	--	--	V
I_R	Reverse current	$V_R=75V$	--	--	5	nA
V_F	Forward voltage	$I_F=1mA$	--	--	0.90	V
		$I_F=10mA$	--	--	1.00	V
		$I_F=50mA$	--	--	1.10	V
		$I_F=150mA$	--	--	1.25	V
C_{tot}	Total capacitance	$V_R=0V, f=1MHz$	--	2	--	pF
t_{rr}	Reverse recovery time	$I_F=I_R=10mA$ $I_{rr}=0.1I_R, R_L=100\Omega$	--	--	3	μs

Ordering Information (Example)

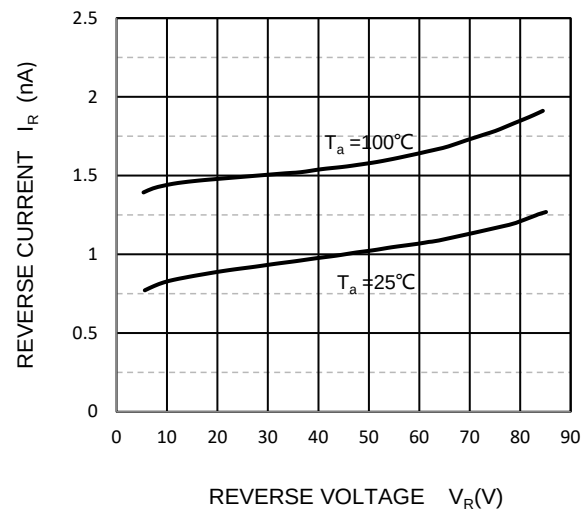
Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
BAV199DW	SOT-363	JY	3,000	45,000	180,000	7"reel

Typical Operating Characteristics

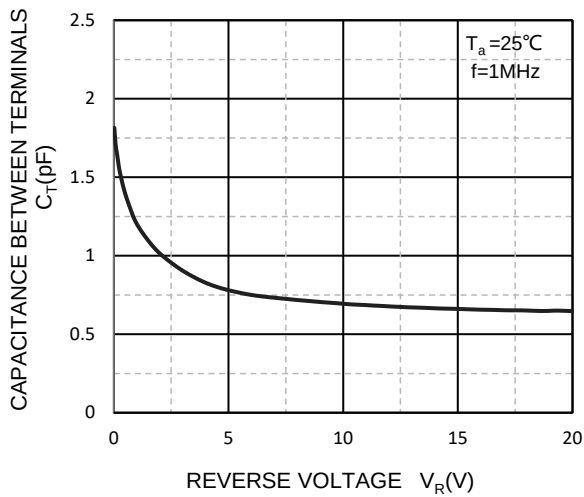
Forward Characteristics



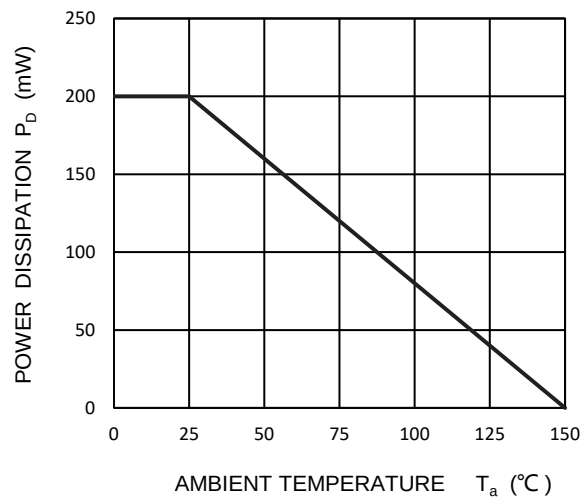
Reverse Characteristics



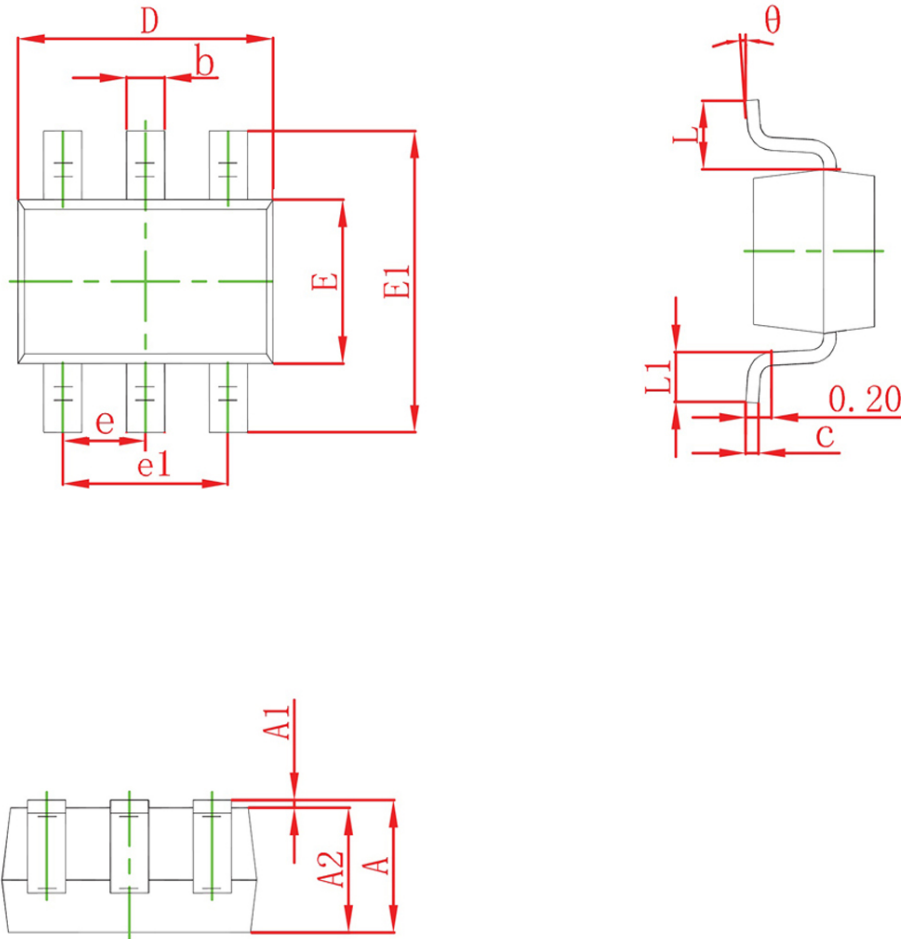
Capacitance Characteristics



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°