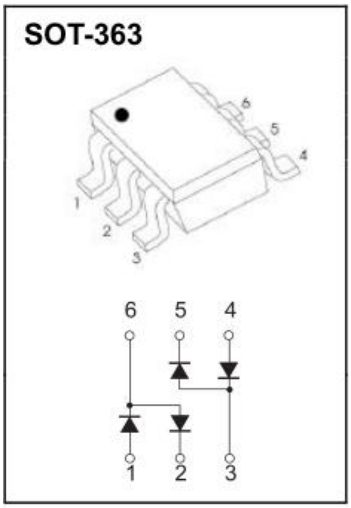
SOT-363 Plastic-Encapsulate Diode

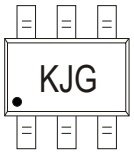
BAV99DW SWITCHING DIODE



FEATURES

- Fast Switching Speed
- For General Purpose Switching Applications
- Halogen-free、RoHS Compliant
- Ultra-Small Surface Mount Package

MARKING: KJG



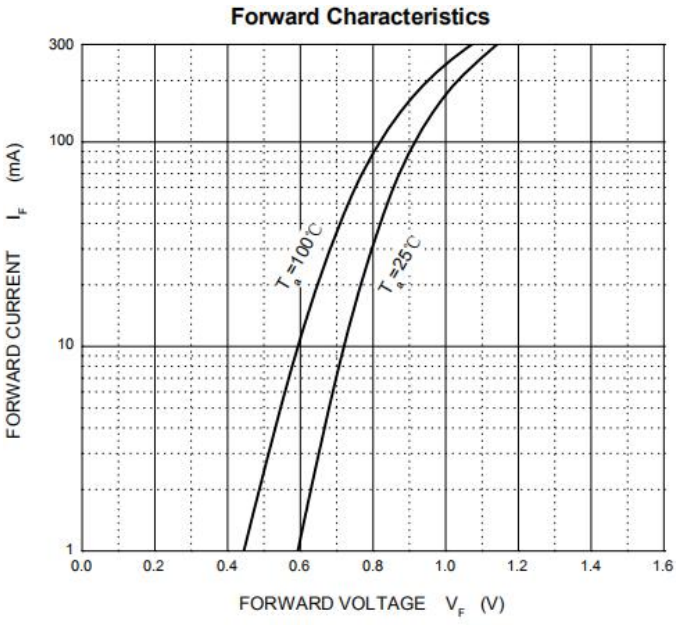
Maximum Ratings @Ta=25℃

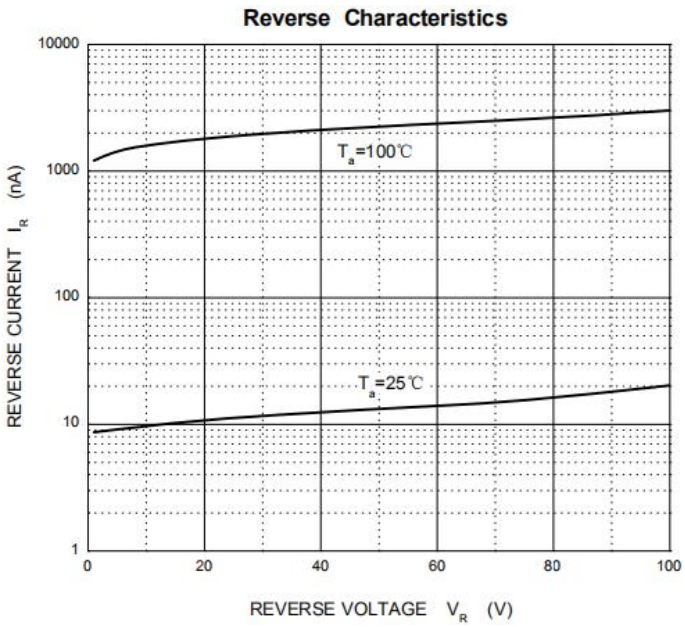
Parameter	Symbol	Limit	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	75	V
Working Peak Reverse Voltage	V_{RWM}	75	V
DC Blocking Voltage	V_R	75	V
Forward Continuous Current	I_{FM}	300	mA
Average Rectified Output Current	I_O	150	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I_{FSM}	2.0	A
Power Dissipation	P_D	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	625	℃/W
Junction Temperature	T_J	-55~+150	℃
Storage Temperature range	T_{STG}	-55~+150	℃

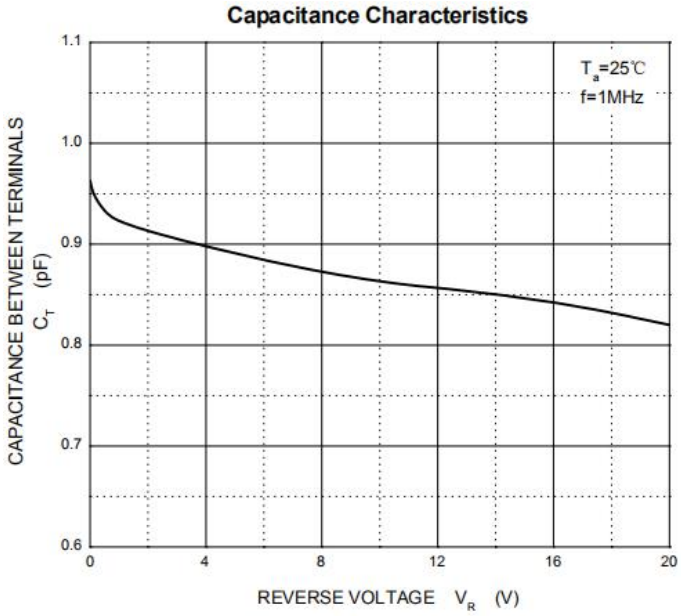
Electrical Characteristics @Ta=25℃ unless otherwise specified

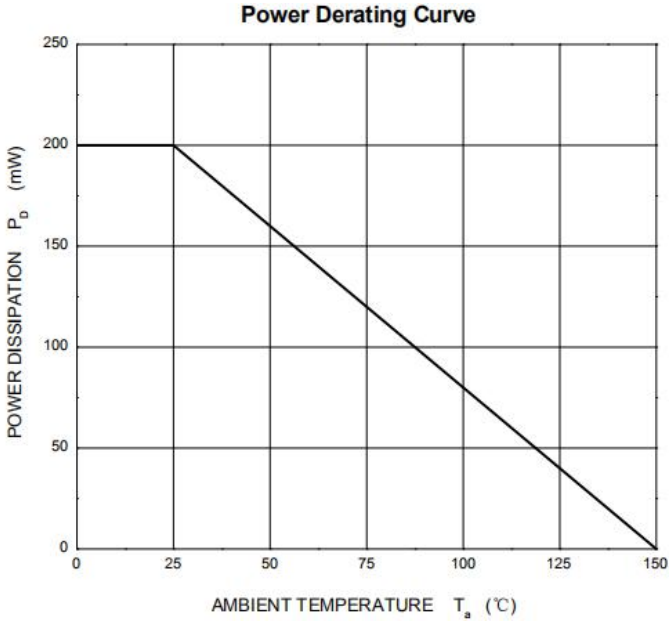
Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	I_R= 2.5μA	75		V
Reverse voltage leakage current	I_{R1}	V_R=75V		50	nA
	I_{R2}	V_R=20V		25	nA
Forward voltage	V_F	I_F=1mA I_F=10mA I_F=50mA I_F=150mA		0.715 0.855 1.00 1.25	V
Diode capacitance	C_D	V_R=0 f=1MHz		2	pF
Reverse recovery time	t_{rr}	I_F=I_R=10mA I_{rr}=0.1×I_R,R_L=100Ω		4	ns

Typical Characteristics



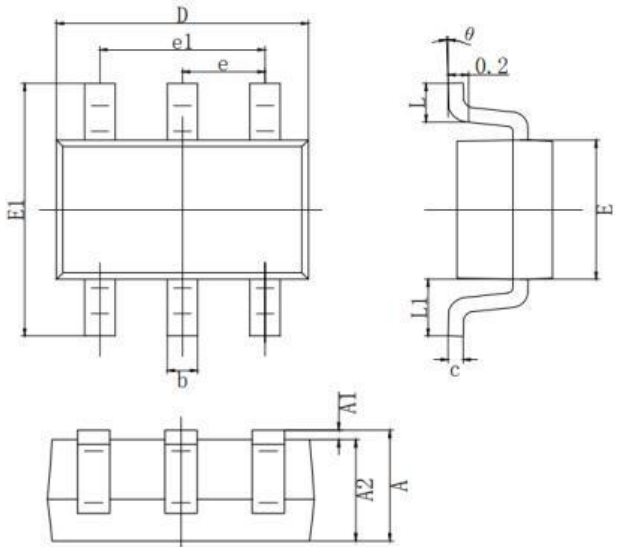






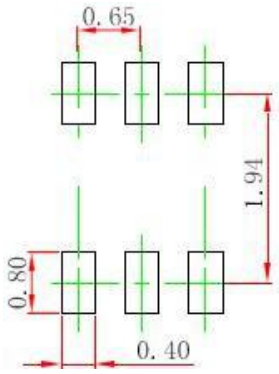
Outlitne Drawing

SOT-363 Package Outline Dimensions



SYMBOL	MILLIMETER	
	MIN	MAX
A	0.900	1.100
A1	0.000	0.100
A2	0.900	1.000
b	0.150	0.350
c	0.080	0.150
D	2.000	2.200
E	1.150	1.350
E1	2.150	2.450
e	0.650 TYP.	
e1	1.200	1.400
L	0.525 REF.	
L1	0.260	0.460
θ	0°	8°

SOT-363 Suggested Pad Layout



Note:
1.Controlling dimension:in millimeters.
2.General tolerance:±0.05mm.
3.The pad layout is for reference purposes only.