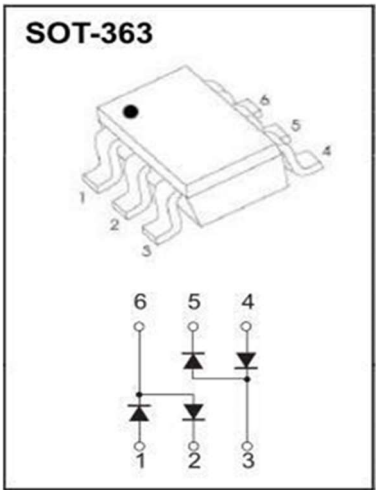
BAV99DW
SOT-363 Plastic-Encapsulate Switching Diode Array

General description
SOT-363 Plastic-Encapsulate Switching Diode Array

FEATURES
- For General Purpose Switching Applications
- Ultra-Small Surface Mount Package
- Extremely Fast Switching Speed
- SOT-363 Plastic Package
- Epoxy UL: 94V-0



DEVICE MARKING: KJG

Maximum Ratings & Thermal Characteristics (Ratings at 25℃ ambient temperature unless otherwise specified.)

Parameters	Symbol	Value	Unit
Repetitive Peak Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} 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=8.3m	I_{FSM}	2.0	A
Power Dissipation	P_D	200	mW
Junction-to-Ambient Thermal Resistance	$R_{\theta JA}$	625	℃/W
Junction and Storage Temperature	T_J 、T_{STG}	-55~+150	℃

Electrical Characteristics (Ratings at 25℃ ambient temperature unless otherwise specified).

Parameters	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage	V_F	I_F=1mA	--	--	0.715	V
		I_F=10mA	--	--	0.855	
		I_F=50mA	--	--	1	
		I_F=150mA	--	--	1.25	
Reverse Voltage	V_R	I_R=2.5μA	75	--	--	V
Reverse Current	I_R	V_R=75V	--	--	2.5	μA
		V_R=20V	--	--	25	nA
Total Capacitance	C_T	1MHz，V_R=0V	--	--	2	pF
Reverse Recovery Time	trr	I_F= I_R=10mA， I_{rr}=0.1×I_R， R_L=100Ω	--	--	4	nS

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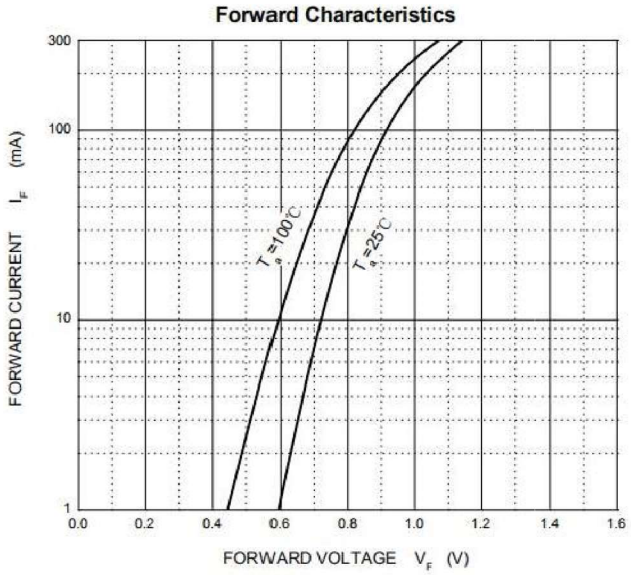
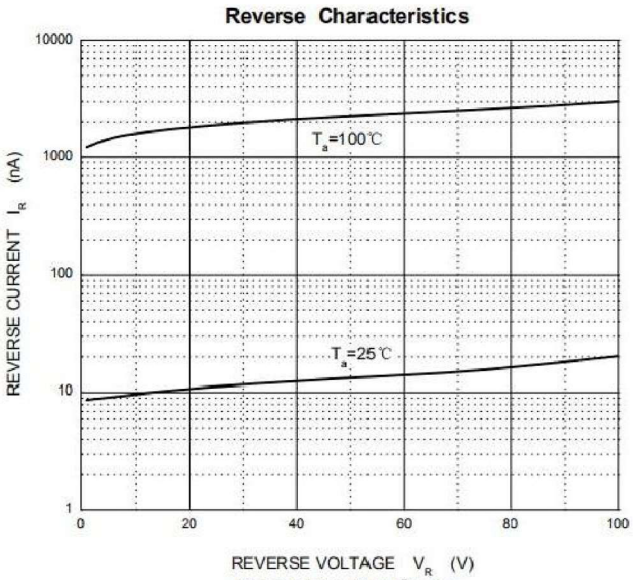
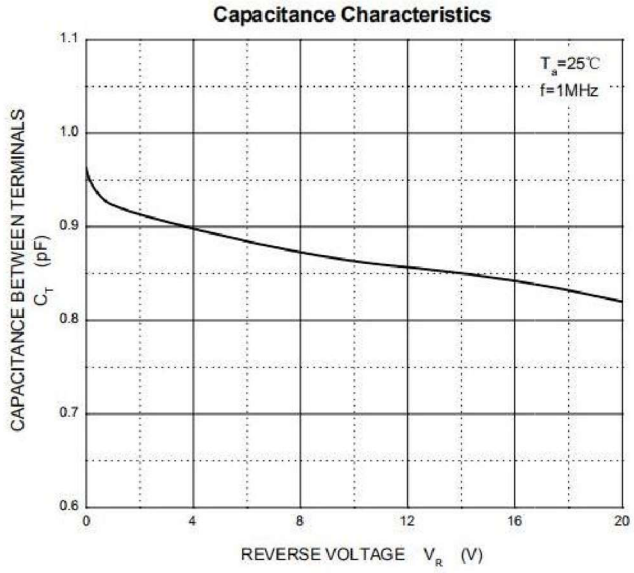
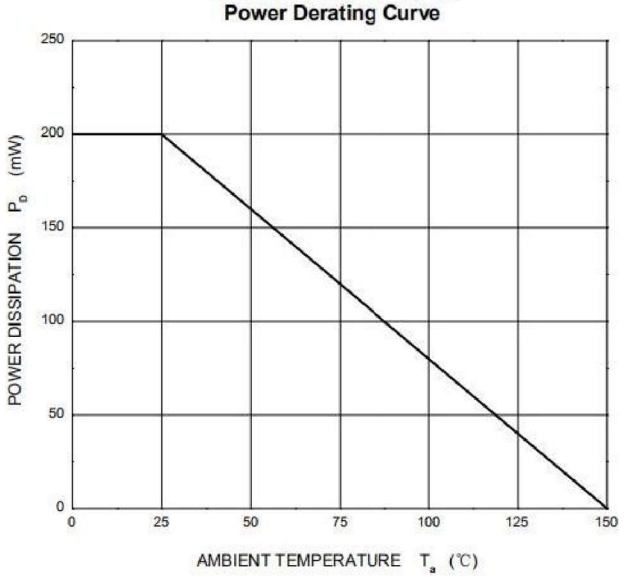
Typical Characteristics

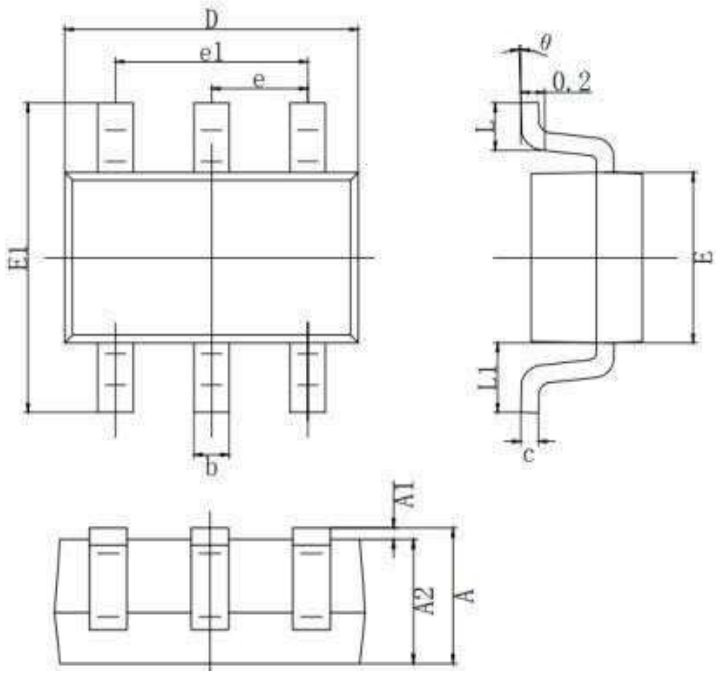






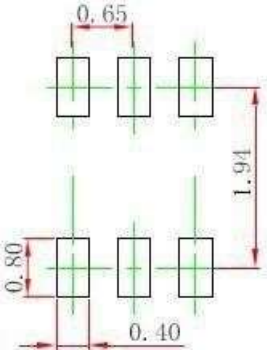


SOT-363 PACKAGE OUTLINE Plastic surface mounted package



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°

Precautions: PCB Design (Recommended land dimensions for SOT-363 diode. Electrode patterns for PCBs)



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

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