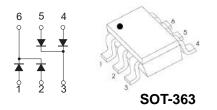


Product data sheet

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MAKING: KJA

- + + -

Maximum Ratings @Ta=25℃

BAV70DW

SWITCHING DIODE

FEATURES

- Fast Switching Speed
- Ultra-Small Surface Mount Package
- For General Purpose Switching Applications
- High Conductance

Parameter	Symbol	Limit	Unit
Peak Repetitive Peak Reverse Voltage	V _{RRM}	100	
Working Peak Reverse Voltage	V _{RWM}	100	V
DC Blocking Voltage	V _R	75	
Forward Continuous Current	I _{FM}	300	mA
Average Rectified Output Current	Ι _Ο	150	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	2	А
Power Dissipation	PD	200	mW
Thermal Resistance From Junction to Ambient	$R_{ extsf{ heta}JA}$	625	°C/W
Operating Junction Temperature	TJ	150	°C
Storage Temperature	T _{STG}	-55~+150	°C

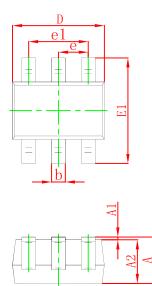
ELECTRICAL CHARACTERISTICS(T_a=25℃ unless otherwise specified)

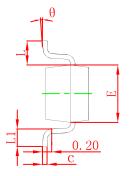
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Reverse voltage	V _(BR)	Ι _R =2.5μΑ	75			V
Reverse current	lĸ	V _R =75V			2.5	μA
		V _R =20V			25	nA
	VF	l⊧=1mA			0.715	V
Forward voltage		l⊧=10mA			0.855	
Forward voltage		l⊧=50mA			1	
		I⊧=150mA			1.25	
Total capacitance	C _{tot}	V _R =0,f=1MHz			2	pF
Reverse recovery time t _{rr} I _F :		I_F = I_R =10mA, I_{rr} =0.1× I_R , R_L =100 Ω			4	ns





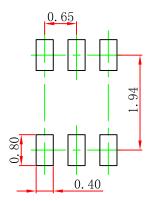
SOT-363 Package Outline Dimensions





Symbol	Dimensions In Millimeters		Dimensions In Inches		
Symbol	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	
С	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	0.650 TYP		0.026	6 TYP	
e1	1.200	1.400	0.047	0.055	
L	0.525 REF		0.021 REF		
L1	0.260	0.460	0.010	0.018	
θ	0°	8°	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.

REEL SPECIFICATION

P/N	PKG	QTY
BAV70DW	SOT-363	3000





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