

Micro Commercial Components



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Features

- Fast switching speed
- Ultra-Small surface mount package
- For general purpose switching applications
- High conductance
- Halogen free available upon request by adding suffix "-HF"

Mechanical Data

- Lead Free Finish/Rohs Compliant ("P"Suffix designates RoHS Compliant. See ordering information)
- Marking Code: KJA
- MSL Rating 1
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1



Symbol	Rating	Rating	Unit	
V _{RM}	Non-Repetitive Peak Reverse Voltage	100 V		
V _{RRM}	Peak Repetitive Reverse Voltage			
VRWM	Working Peak Reverse Voltage	75	V	
VR	DC Blocking Voltage			
V _{R(RMS)}	RMS Reverse Voltage	53	V	
I _{FM}	Forward Continuous Current	300	mA	
lo	Average Rectified Output Current	150	mA	
	Non-Repetitive Peak Forward Surge Current			
IFSM	@ t=1.0us	2.0	A	
	@ t=1.0s	1.0		
PD	Power Dissipation	200	mW	
R _{JA}	Thermal Resistance Junction to Ambient Air	625	°C/W	
TJ	Junction Temperature	-55 to +150	°C	
T _{STG}	Storage Temperature	-55 to +150	°C	

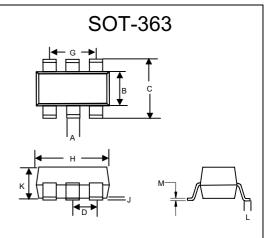
Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Тур	Max	Units
V _{(BR)R}	Reverse Breakdown Voltage (I _R =2.5 µ Adc)	75			V
V _F	Forward Voltage ⁽¹⁾ I _F =1.0mAdc			0.715	V
	I _F =10mAdc I _F =50mAdc I _F =150mAdc			0.855 1.0 1.25	v
I _R	Leakage Current ⁽¹⁾ (V _R =75Vdc) (V _R =75Vdc, Tj=150°C) (V _R =25Vdc, Tj=150°C) (V _R =20Vdc)	 	 	2.5 50 30 25	μΑ μΑ μΑ nA
Cj	Junction Capacitance (V _R =0, f=1.0MHz)			2.0	pF
t _{rr}	Reverse Recovery Time (I_F =10mA, I_R =10mA, Irr=0.1 x I_R R _L =100OHMS)			4.0	ns

*(1) Short duration test pulse to minimize self-heating effect.

200mW Switching Diodes 75 Volts

BAV70DW



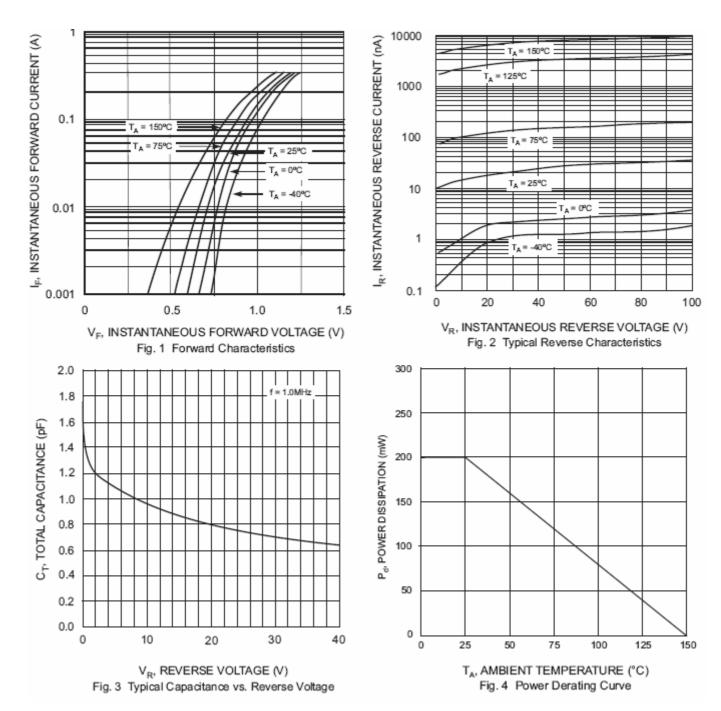
DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.006	.014	0.15	0.35	
В	.045	.053	1.15	1.35	
С	.085	.096	2.15	2.45	
D	.02	6	0.65N	ominal	
G	.047	.055	1.20	1.40	
Н	.071	.087	1.80	2.20	
J		.004		0.10	
K	.035	.043	0.90	1.10	
L	.010	.018	0.26	0.46	
М	003	006	0.08	0.15	

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Revision: B

BAV70DW





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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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