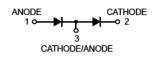
Surface Mount Switching Diode





Features:

- Lead-free.
- · Fast switching speed.
- · High conductance.
- · Surface mount package ideally suited for automatic insertion.
- · For general purpose switching applications.





Applications:

High speed switching application.

Max. Rating @ TA = 25°C unless otherwise specified

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	Vrrm	250	
Working Peak Reverse Voltage DC Reverse Voltage	Vrwm Vr	200	V
RSM Reverse Voltage	VR(RMS)	141	
Forward Continuous Current(Max.)	IFM	400	mA
Peak Forward Surge Current @t = 1µs @t = 1ms @t = 1s	Ігэм	9 3 1.7	А
Repetitive Peak Forward Surge Current	IFRM	625	mA
Power Dissipation	Po	350	mW
Thermal Resistance Junction To Ambient Air	R _{θJA}	357	°C/W
Operating Junction Temperature Range	Тј	150	°C
Storage Temperature Range	Тѕтс	-65 to +150	°C

Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Min.	Max.	Unit	Test Condition
Reverse breakdown Voltage	V(BR)R	250	-	V	IR = 100μA
Reverse Leakage Current	lr	-	100	nA	V _R = 200V
Forward voltage	VF	-	1 1.25	V	IF = 100mA IF = 200mA
Total Capacitance	Ст	-	5.0	pF	V _R = 0V, f = 1MHz
Reverse Recovery Time	trr	-	50	ns	$I_F = I_R = 30 \text{mAI}_{rr} = 0.1 \times I_R$ $R_L = 100 \Omega$

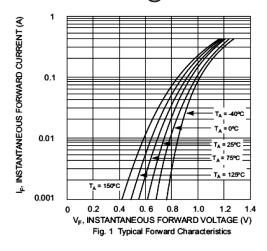
Newark.com/multicomp-pro Farnell.com/multicomp-pro Element14.com/multicomp-pro

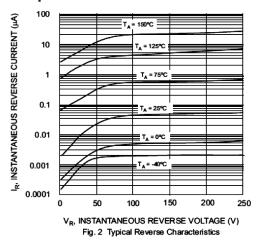


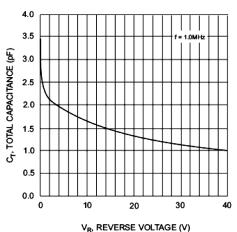
Surface Mount Switching Diode

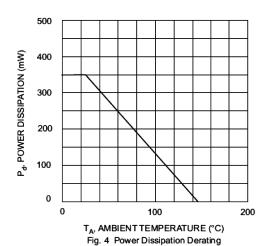


Typical Characteristics @ TA = 25°C unless otherwise specified

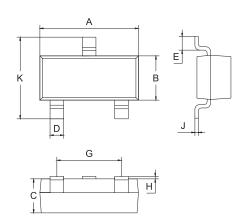








Plastic surface mounted package



SOT-23			
Dim.	Min.	Max.	
Α	2.7	3.1	
В	1.1	1.5	
С	1 Typical		
D	0.4 Typical		
Е	0.35	0.48	
G	1.8	2	
Н	0.02	0.1	
J	0.1 Typical		
K	2.2	2.6	

Dimensions : Millimetres

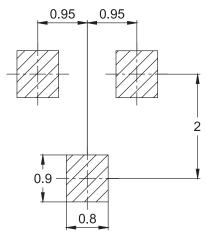
Newark.com/multicomp-pro Farnell.com/multicomp-pro Element14.com/multicomp-pro



Surface Mount Switching Diode



Soldering Footprint



Dimensions: Millimetres

Package Information

Part Number	Marking	Package	Shipping
BAV23S-7-F	KL31	SOT-23	3,000 / Tape & Reel

Part Number Table

Description	Part Number
Surface mount switching diode	BAV23S-7-F

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