

BAV23S-7-F

Features:

- · Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- · For General Purpose Switching Applications
- · High Conductance



SOT-23

Applications:

· High Speed Switching Application

Maximum Ratings:

Ratings at 25°C unless otherwise specified.

Parameter	Symbol	Value	Unit
Repetitive peak reverse voltage	Vrrm	250	V
Working peak reverse voltage DC reverse voltage	V _{RWM} V _R	200	V
RMS reverse voltage	VR(RMS)	141	V
Forward continuous current (Max.)	Іғм	400	mA
Peak forward surge current at t=1µs at t=100µs at t=10ms	IFSM	9 3 1.7	А
Repetitive peak forward surge current	IFRM	625	mA
Power dissipation	PD	350	mW
Thermal resistance junction to ambient air	Reja	357	°C/W
Operating and storage temperature range	T _j ,Tstg	-65 to +150	°C

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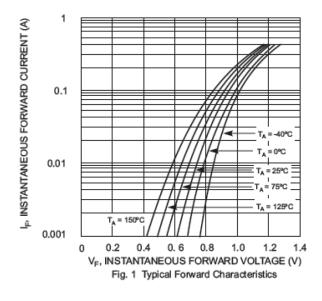
Electrical Characteristics:

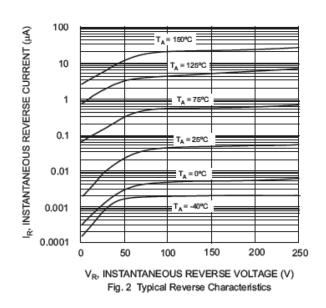
Ratings at 25°C unless otherwise specified

Parameter	Symbol	Test conditions	Min.	Max.	Unit
Reverse breakdown voltage	V(BR)	I _R = 100μA	250	-	V
Reverse leakage current	lr	V _R =200V	-	100	nA
Forward voltage	VF	I==100mA I==2000mA	-	1 1.25	V
Total capacitance	Ст	V _R =0V f=1MHz		5	pF
Reverse recovery time	trr	I _F =I _R =30mA I _{II} =0.1 × I _R R _L =100Ω	-	50	nS

Typical Characteristics:

T_A = 25°C unless otherwise specified

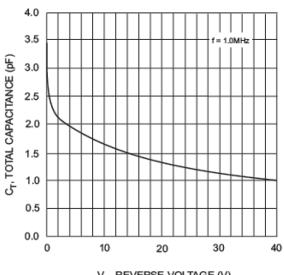




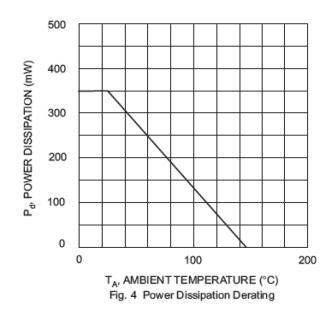
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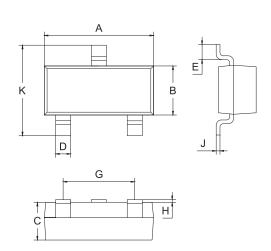


V_R, REVERSE VOLTAGE (V)
Fig. 3 Typical Capacitance vs. Reverse Voltage



Package Outline:

Plastic surface mounted package



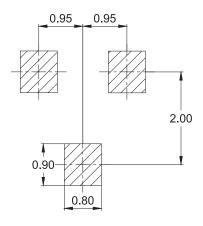
SOT-23			
Dim.	Min.	Max.	
Α	2.7	3.1	
В	1.1	1.5	
С	1 Typ.		
D	0.4 Typ.		
E	0.35	0.48	
G	1.8	2	
Н	0.02	0.1	
J	0.1 Typ.		
K	2.2	2.6	

Dimensions: Millimetres





Soldering Footprint:



Dimensions: Millimetres

Package Information:

Device	Package	Shipping
BAV23C-7-F & BAV23S-7-F	SOT-23	3,000 / Tape & Reel

Part Number Table

Description	Part Number	
Surface Mount Switching Diode	BAV23C-7-F	
	BAV23S-7-F	

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