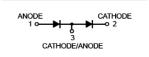
Surface Mount Fast Switching Diode





Features:

- Ultra-Small Surface Mount Package
- · Fast Switching Speed
- For General Purpose Switching Applications
- · High Conductance
- · Also Available in Lead Free Version





SOT-523

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

Parameter	Symbol	Limits	Unit
Peak repetitive reverse voltage	VRRM	85	V
Working peak reverse voltage	VRMS	85	V
DC blocking voltage	VR	85	V
RMS reverse voltage	VR(RMS)	60	V
Forward continuous current (Max.) Single diode loade Both diodes loade	IEM	155 75	mA
Repetitive peak forward current	IFRM	500	mA
Non-repetitive peak forward surge current @t = 1µs @t = 1ms @t = 1s	IFSM	4 1 0.5	А
Power dissipation	PD	150	mW
Thermal resistance junction to ambient	Reja	833	°C/W
Junction and storage temperature	Т _{j,} Тsтg	-65 to +150	°C

Electrical Characteristics @ TA = 25°C unless otherwise specified

Parameter	Symbol	Conditions	Min.	Max.	Unit
Reverse breakdown voltage	V(BR)R	IR = 100uA	85	-	V
Leakage current	lR	VR = 25V VR = 75V VR = 25V, Tj = 150°C VR = 75V, Tj = 150°C	-	30 2 60 100	nΑ μΑ μΑ μΑ
Forward voltage	VF	IF = 1mA IF = 10mA IF = 50mA IF = 150mA	-	0.715 0.855 1 1.25	V
Typical total capacitance	Ст	V _R = 0V, f = 1MHz	-	1.75	pF
Reverse recovery time	trr	I _F = I _R = 10mA, Irr = 0.1 × I _R , R _L = 100Ω	-	4	ns

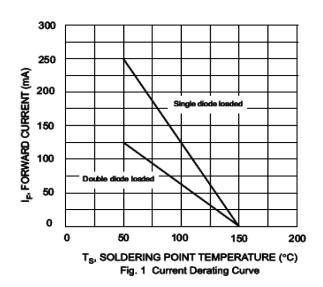
Newark.com/multicomp-pro Farnell.com/multicomp-pro Element14.com/multicomp-pro

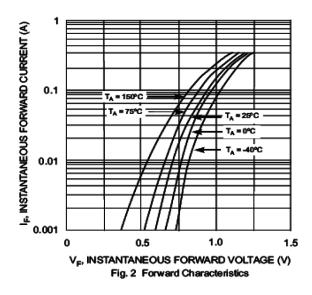


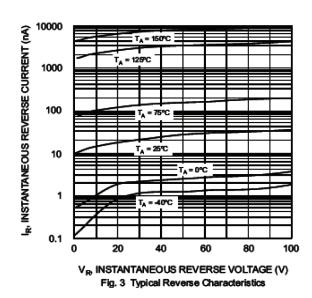
Surface Mount Fast Switching Diode

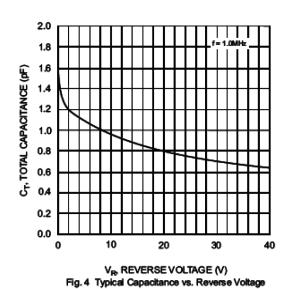
multicomp PRO

Typical Characteristics @ TA = 25°C unless otherwise specified





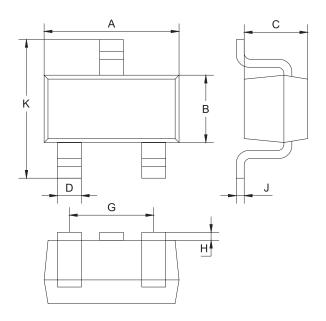




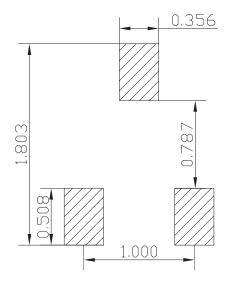
Surface Mount Fast Switching Diode



Plastic surface mounted package



SOT-523			
Dim	Min	Max	
А	1.5	1.7	
В	0.75	0.85	
С	0.6	0.8	
D	0.15	0.3	
G	0.9	1.1	
Н	0.02	0.1	
J	0.1Typical		
К	1.45	1.75	
All Dimensions in mm			



Package Information

Device	Package	Shipping
BAV99T-7-F	SOT-523	3,000 / Tape & Reel

Unit : mm

Part Number Table

Description	Part Number	
Surface Mount Fast Switching Diode	BAV99T-7-F	

Important Notice: This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.

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

