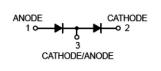




Features:

- Fast Switching Speed :6ns (Max.)
- · High Conductance
- Connected In Series
- Surface Mount Package Ideally Suited for Automatic Insertion





Applications:

Small signal switching

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

Parameter		Symbol	Limits	Unit
Repetitive peak reverse voltage		Vrrm	85	V
Continuous reverse voltage		VR	75	V
Peak forward surge current	@t = 1µs @t = 1ms @t = 1s	IFSM	4 1 0.5	А
Forward continuous current (Max.)	Single diode loaded Both diodes loaded	lF	215 125	mA
Non-Repetitive peak forward current		IFRМ	450	mA
Power dissipation		Po	250	mW
Thermal resistance junction to ambie	nt air	R _{θJA}	500	°C/W
Junction and storage temperature		Т _{ј,} Тѕтс	-65 to +150	°C

Electrical Characteristics @ TA = 25°C unless otherwise specified

Parameter	Symbol	Conditions	Min.	Max.	Unit
Reverse breakdown voltage	V(BR)	IR = 2.5μA	75	-	V
Reverse voltage leakage current	lR	V _R = 25V V _R = 75V V _R = 25V, T _j = 150°C V _R = 75V, T _j = 150°C	-	35 1 30 50	nA μA μA μA
Forward voltage	VF	IF = 1mA IF = 10mA IF = 50mA IF = 150mA	-	715 855 1,000 1,250	V
Diode capacitance	CD	Vr =0V, f=1MHz	-	1.5	pF
Reverse recovery time	trr	I _F = I _R = 10mA, Irr = 0.1 × I _R , R _L = 100Ω	-	4	ns

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Typical Characteristics @ TA = 25°C unless otherwise specified

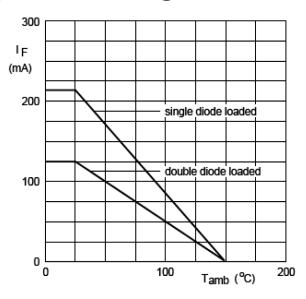
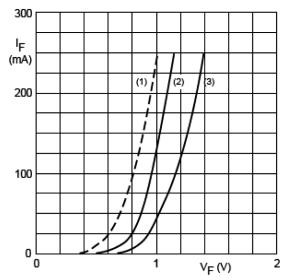


Fig.2 Maximum permissible continuous forward current as a function of ambient temperature.



- (1) T_i = 150 °C; typical values.
- (2) T_j = 25 °C; typical values.
- (3) T_i = 25 °C; maximum values.

Fig.3 Forward current as a function of forward voltage.

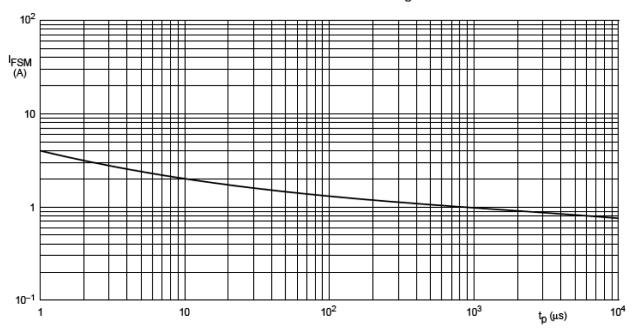
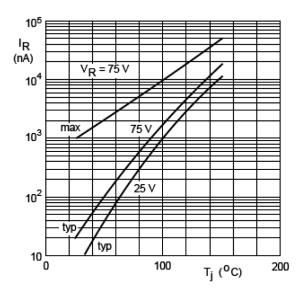


Fig.4 Maximum permissible non-repetitive peak forward current as a function of pulse duration.





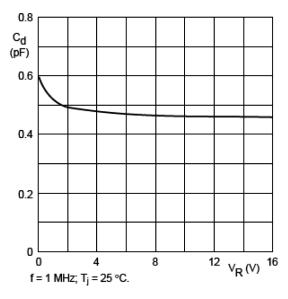
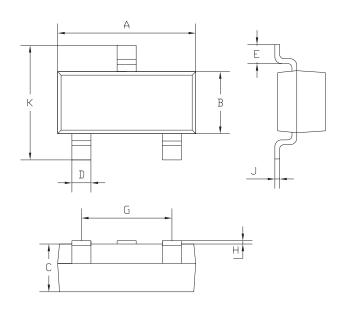


Fig.5 Reverse current as a function of junction Fig.6 temperature.

Diode capacitance as a function of reverse voltage; typical values.

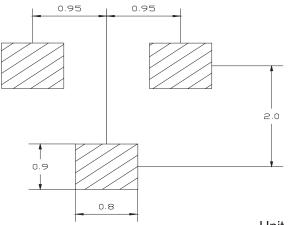
Plastic surface mounted package



SOT-23		
Dim	Min	Max
Α	2.85	2.95
В	1.25	1.35
С	1.0Typical	
D	0.37	0.43
E	0.35	0.48
G	1.85	1.95
Н	0.02	0.1
J	0.1Typical	
K	2.35	2.45
All Dimensions in mm		



Soldering Footprint



Package Information

Device	Package	Shipping
BAV99-7-F	SOT-23	3,000 / Tape & Reel

Unit: mm

Part Number Table

Description	Part Number	
Dual series switching diode	BAV99-7-F	

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