

225mW SMD Switching Diode

FEATURES

- Fast switching speed
- Surface mount device type
- Moisture sensitivity level 1
- Matte Tin (Sn) lead finish with Nickel (Ni) underplate
- Pb free and RoHS compliant
- Packing code with suffix "G" means green compound (halogen-free)

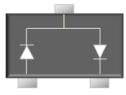
MECHANICAL DATA

- Case: SOT-23 small outline plastic package
- Terminal: Matte tin plated, lead free,
- solderable per MIL-STD-202, Method 208 guaranteed
- High temperature soldering guaranteed: 260°C/10s
- Weight: 8 mg (approximately)
- Marking code: A7.



SOT-23





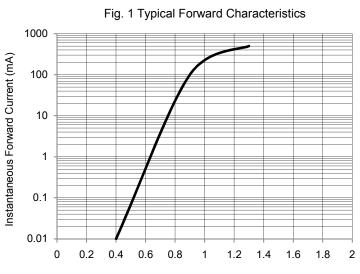
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)					
PARAMETER		SYMBOL	VALUE	UNIT	
Power dissipation		PD	225	mW	
Peak repetitive reverse voltage		V _{RRM}	70	V	
Repetitive peak forward current		I _{FRM}	450	mA	
Mean forward current		Ι _Ο	200	mA	
Non-repetitive peak forward surge current	Pulse Width=1 s	I _{FSM}	0.5	A	
Thermal resistance form junction to a	mbient	R _{θJA}	556	°C/W	
Junction and storage temperature ran	ge	T _J , T _{STG}	- 55 to + 150	°C	

Р	SYMBOL	MIN	MAX	UNIT	
Reverse breakdown voltage	I _R = 100 μA	V _(BR)	70	-	V
Forward voltage	I _F = 50 mA	V _F	-	1.00	v
	I _F = 150 mA	VF	-	1.25	
Reverse leakage current	V _R = 70 V	I _R	-	2.50	μA
Junction capacitance	V _R = 0 V, f = 1 MHz	CJ	-	1.5	pF
Reverse revovery time	$I_F = I_R = 10$ mA, $R_L = 100$ Ω, $I_{RR} = 1$ mA	t _{rr}	-	6	ns



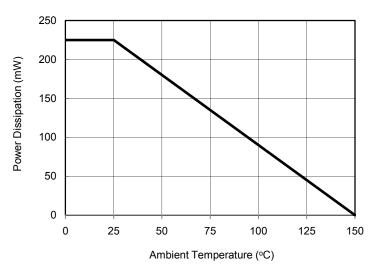
RATINGS AND CHARACTERISTICS CURVES

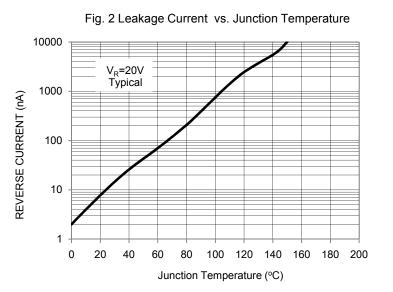
(T_A=25°C unless otherwise noted)



Instantaneous Forward Voltage (V)

Fig. 3 Power Dissipation Derating Curve







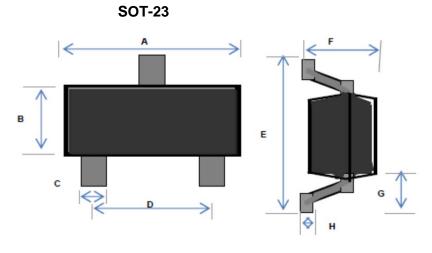
ORDER INFORMATION (EXAMPLE)

BAV99L RFG



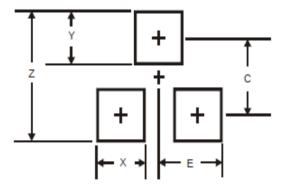
- Green compound code Packing code
- Part no.

PACKAGE OUTLINE DIMENSIONS



DIM.	Unit (mm)		Unit (inch)		
	Min	Мах	Min	Мах	
А	2.70	3.10	0.106	0.122	
В	1.10	1.50	0.043	0.059	
С	0.30	0.51	0.012	0.020	
D	1.78	2.04	0.070	0.080	
E	2.10	2.64	0.083	0.104	
F	0.89	1.30	0.035	0.051	
G	0.55	REF	0.022	2 REF	
Н	0.10	REF	0.004	I REF	

SUGGEST PAD LAYOUT



DIM.	Unit (mm)	Unit (inch)	
	TYP	TYP	
Z	2.90	0.114	
Х	0.80	0.031	
Y	0.90	0.035	
С	2.00	0.079	
Е	1.35	0.053	



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