

410mW High Voltage SMD Switching Diode

FEATURES

- These diodes are also available in DO-35, LL34 Package
- Surface Mount Device Type
- Moisture sensitivity level 1
- Matte Tin (Sn) lead finish with Nickel (Ni) underplate
- Pb free version and RoHS compliant
- Packing code with suffix "G" means
- green compound (halogen-free)









SOD-123F

MECHANICAL DATA

- Case: Flat lead SOD-123F 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
- Polarity: Indicated by cathode band
- Weight: 4.85 ± 0.5mg

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)				
PARAMET	ſER	SYMBOL	VALUE	UNIT
Power Dissipation		PD	410	mW
Repetitive Peak Reverse Voltage		V _{RRM}	250	V
Repetitive Peak Forward Current		I _{FRM}	625	mA
Mean Forward Current		Ι _ο	200	mA
Non-Repetitive Peak Forward Surge Current	Pulse Width = 1 µs	I _{FSM}	4	Α
	Pulse Width = 1 s		1	A
Thermal Resistance (Junction to Ambient)		R _{eJA}	375	°C/W
Junction and Storage Temperature Range		T_J,T_STG	-65 to +150	°C

PARAMETER		SYMBOL	MIN	МАХ	UNIT
	BAV19W		120	-	
Reverse Breakdown Voltage (Note 1)	BAV20W	V _(BR)	200	-	V
	BAV21W		250	-	
	I _F = 100 mA	V	-	1	V
Forward Voltage	I _F = 200 mA	V _F	-	1.25	- v
Reverse Leakage Current (Note 2)	BAV19W			100	
	BAV20W	I _R	-		nA
	BAV21W				
Junction Capacitance	V _R = 0 , f = 1.0 MHz	CJ	-	5	pF
Reverse Recovery Time (Note 3)		t _{rr}	-	50	ns

Note 1 : Test condition : I_R = 100µA

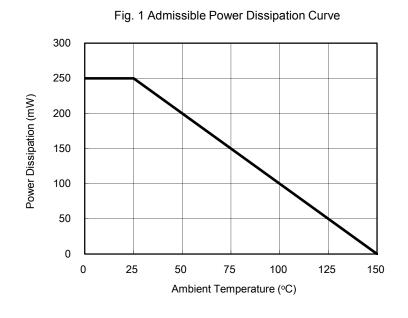
Note 2 : Test condition : BAV19W @ V_R=100V, BAV20W @ V_R=150V, BAV21W @ V_R=200V

Note 3 : Test condition : $I_F = I_R = 30 \text{mA}$, $R_L = 100 \Omega$, Irr = 3 mA



RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)



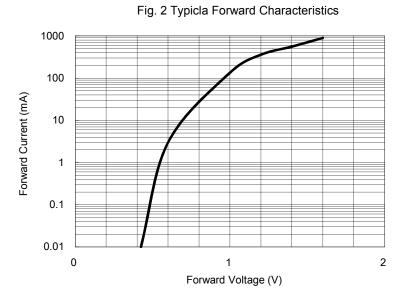
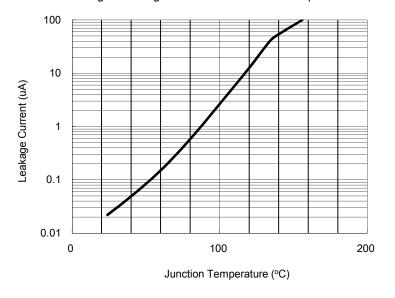


Fig. 3 Leakage Current VS. Junction Temperature



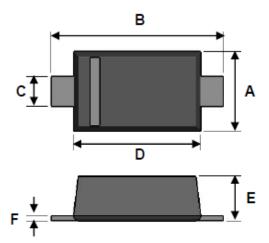


ORDER INFORMATION (EXAMPLE)

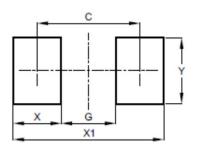
BAV19W RHG



PACKAGE OUTLINE DIMENSIONS SOD-123F



SUGGEST PAD LAYOUT



MARKING CODE

Part no.	Marking
BAV19W	H1
BAV20W	H2
BAV21W	H3

DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
А	1.50	1.70	0.059	0.067
В	3.30	3.90	0.130	0.154
С	0.50	0.70	0.020	0.028
D	2.50	2.70	0.098	0.106
Е	0.80	1.15	0.031	0.045
F	0.05	0.20	0.002	0.008

DIM.	Unit (mm)	Unit (inch)	
DIN.	Тур.	Тур.	
С	2.86	0.113	
G	1.52	0.060	
Х	1.34	0.053	
X1	4.20	0.165	
Y	1.80	0.071	

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