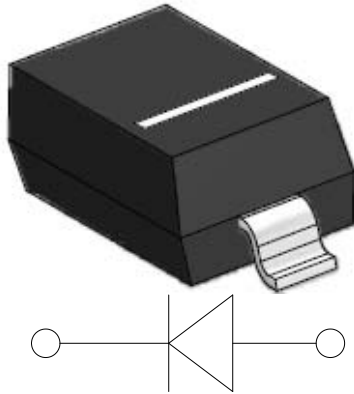


Schottky Rectifier



Features

- VR 30V
- I_F AV 0.2A
- Moisture Sensitivity Level 1

Mechanical Data

- **Package:** SOD123G
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end
- **Marking:** L9

■Maximum Ratings ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	VALUE
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	V	30
DC Blocking Voltage	V_R	V	30
Peak forward surge current (8.3ms, half sine)	I_{FSM}	A	0.6A
Average forward current	I_{FAV}	A	0.2
Power dissipation	P_{tot}	mW	500
Maximum junction temperature	T_j	$^\circ\text{C}$	-55 to +125
Storage temperature range	T_{stg}	$^\circ\text{C}$	-55 to +150

■Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAT54W	F2	Approximate 0.011	3000	30000	120000	7" reel

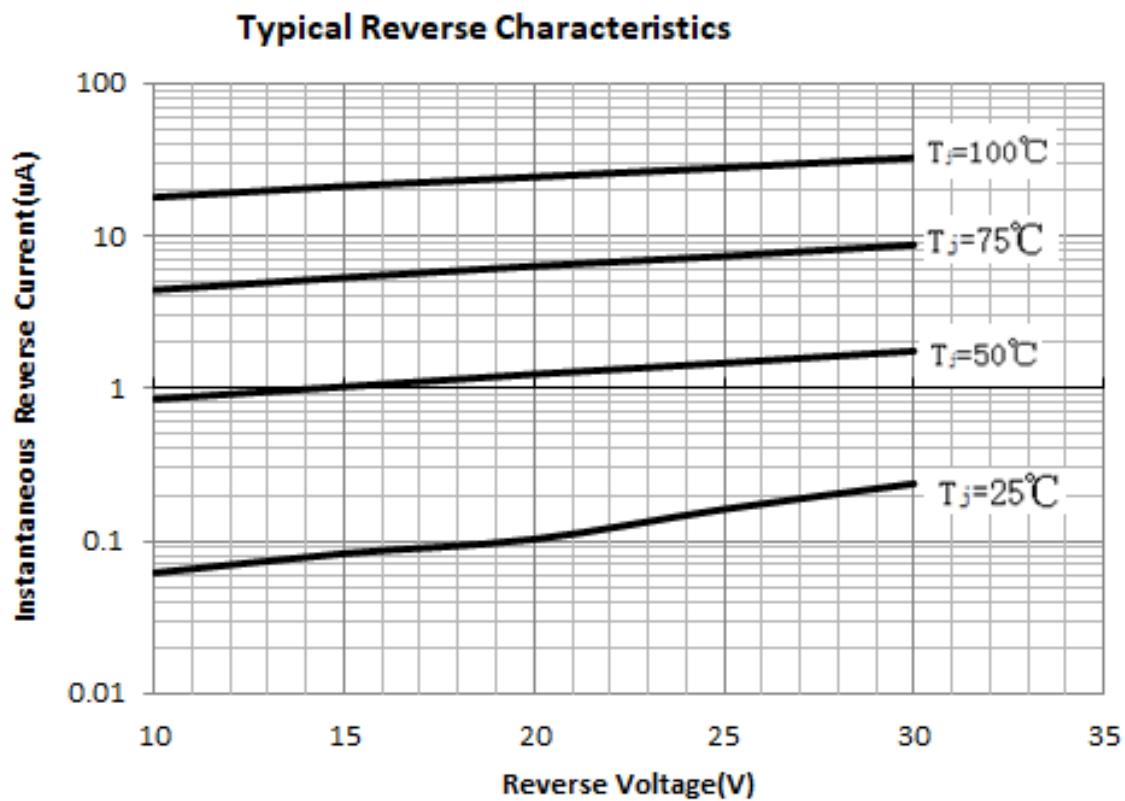
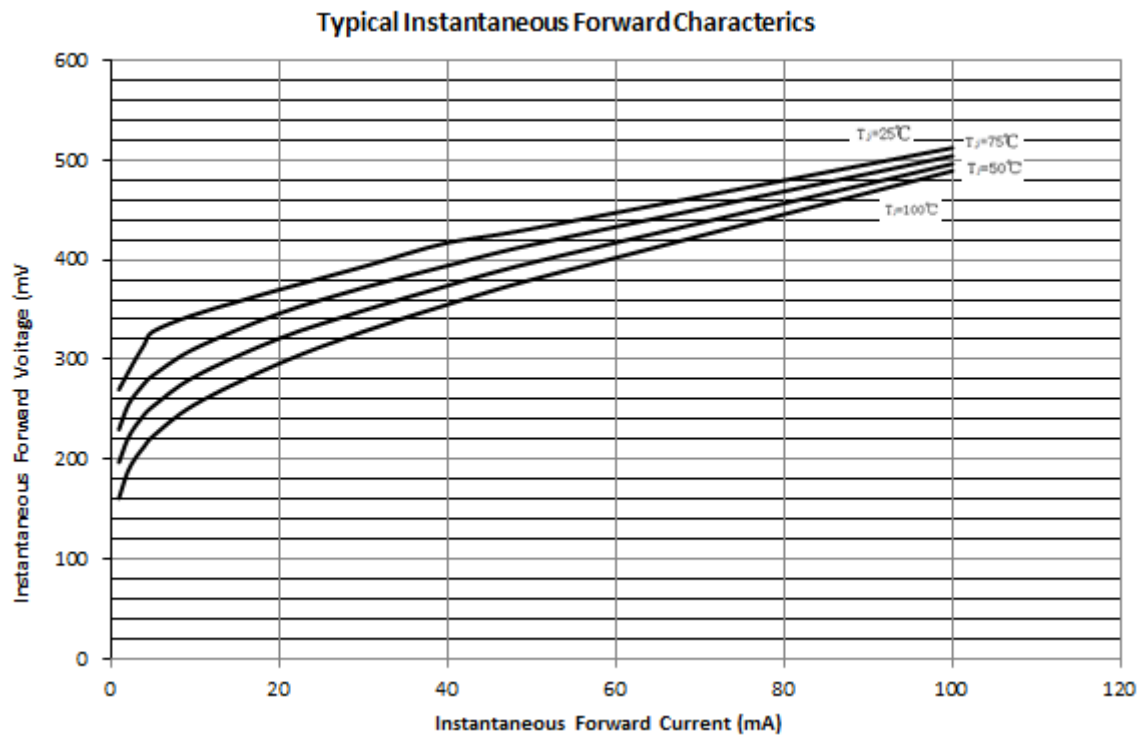
■Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	Symbol	UNIT	Conditions	Min	Typ	Max
Breakdown Voltage	V_R	V	$I_R=100\mu\text{A}$	30		
Forward Voltage	V_F	V	$I_F=0.1\text{mA}$			0.24
			$I_F=1\text{mA}$			0.32
			$I_F=10\text{mA}$			0.4
			$I_F=30\text{mA}$			0.5
			$I_F=100\text{mA}$			1.0
Reverse Leakage Current	I_R	μA	$V_R=25\text{V}$			2
Typical Junction Capacitance	C_J	pF	$V_R=1\text{V}, f=1\text{MHz}$			10



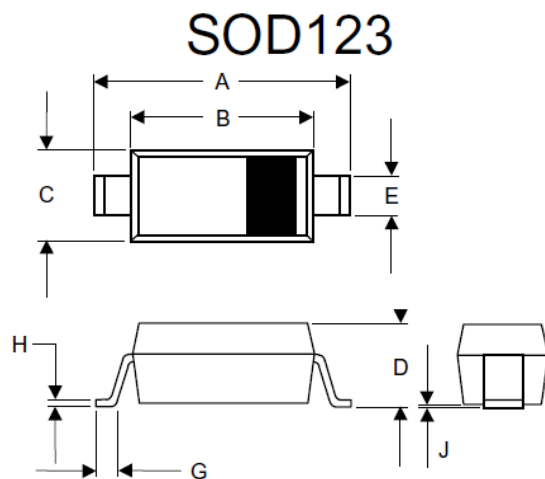
BAT54W

■ Characteristics (Typical)



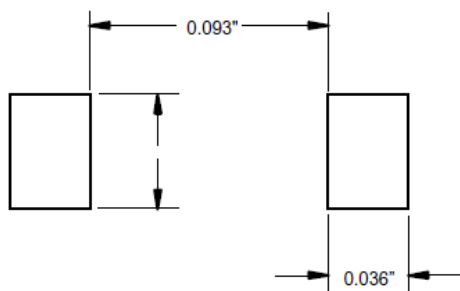


■ Outline Dimensions



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.140	.152	3.55	3.85	
B	.100	.112	2.55	2.85	
C	.055	.071	1.40	1.80	
D	-----	.053	-----	1.35	
E	.012	.031	0.30	.78	
G	.006	-----	0.15	-----	
H	-----	.01	-----	.25	
J	-----	.006	-----	.15	

■ Soldering Footprint



Unit: mm



Disclaimer

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The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

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