

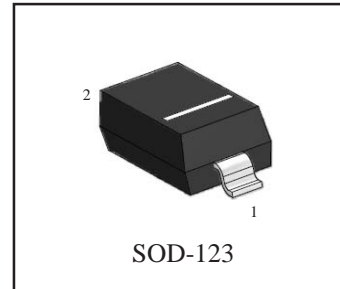
## Schottky Rectifier

### Features

- VR 30V
- I<sub>F</sub>AV 0.2A

### Mechanical Data

- **Package:** SOD-123
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end
- **Marking:** L9



### Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	VALUE
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	V	30
DC Blocking Voltage	V <sub>R</sub>	V	30
Peak forward surge current (8.3ms, half sine)	I <sub>FSM</sub>	A	0.6
Average forward current	I <sub>FAV</sub>	A	0.2
Power dissipation	P <sub>tot</sub>	mW	500
Maximum junction temperature	T <sub>j</sub>	°C	-55 to +125
Storage temperature range	T <sub>stg</sub>	°C	-55 to +150

### Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	Symbol	UNIT	Conditions	Min	Typ	Max
Breakdown Voltage	V <sub>R</sub>	V	I <sub>R</sub> =100uA	30		
Forward Voltage	V <sub>F</sub>	V	I <sub>F</sub> =0.1mA			0.24
			I <sub>F</sub> =1mA			0.32
			I <sub>F</sub> =10mA			0.4
			I <sub>F</sub> =30mA			0.5
			I <sub>F</sub> =100mA			1.0
Reverse Leakage Current	I <sub>R</sub>	uA	V <sub>R</sub> =25V			2
Typical Junction Capacitance	C <sub>J</sub>	pF	V <sub>R</sub> =1V, f=1MHz			10



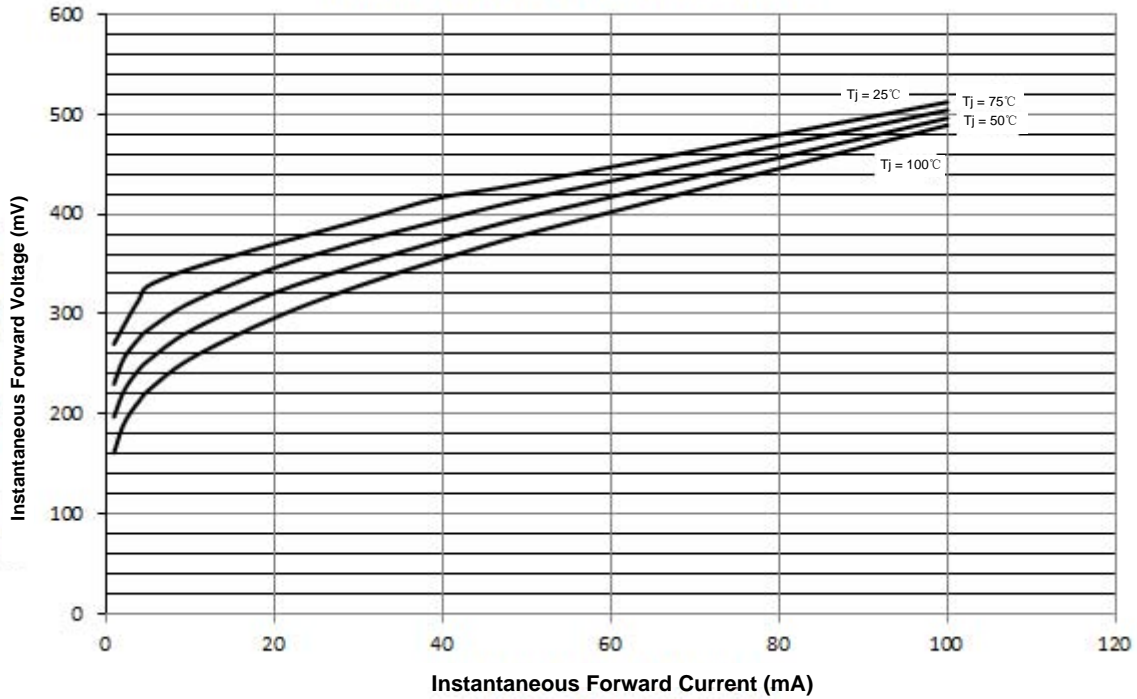
# BAT54W

## Ordering Information (Example)

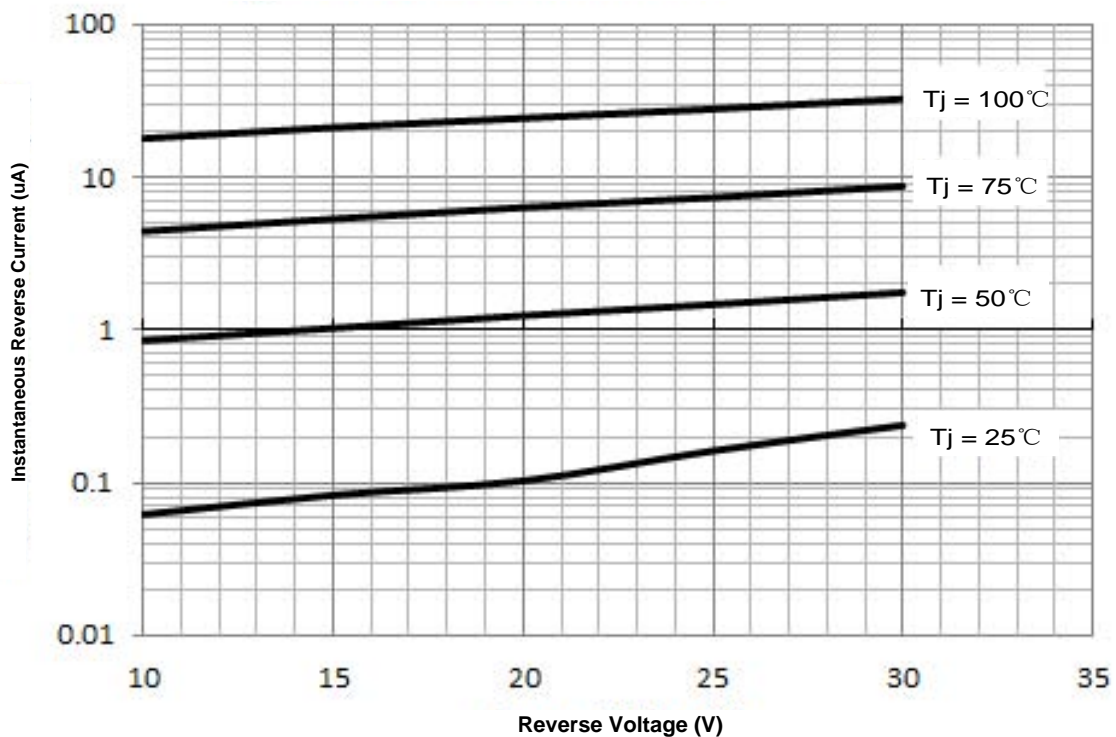
PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAT54W	F2	Approximate 0.011	3000	30000	120000	7" reel

## Characteristics (Typical)

Typical Instantaneous Forward Characteristics



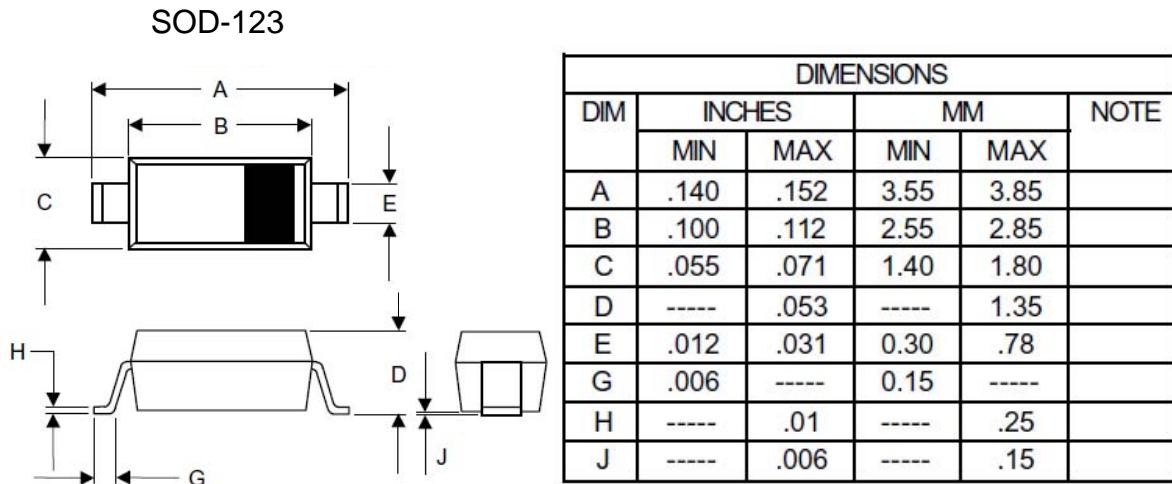
Typical Reverse Characteristics



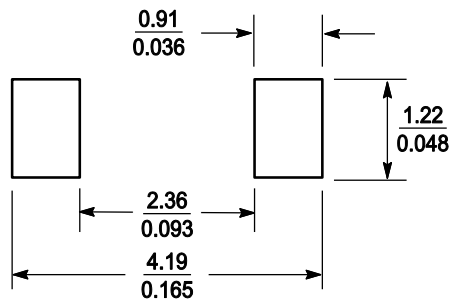


# BAT54W

## Outline Dimensions



## Soldering Footprint



SCALE 10:1 (  $\frac{\text{mm}}{\text{inches}}$  )