

## Schottky Diode

### Features

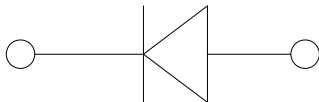
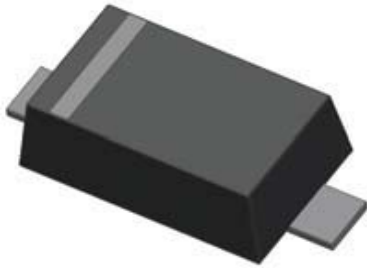
- $V_R$  30V
- $I_{F(AV)}$  200mA

### Typical Applications

- Low Forward Voltage Drop

### Mechanical Data

- **Package:** SOD123F
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end
- **Marking:** G2



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

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Repetitive peak reverse voltage	$V_{RRM}$	V		30
Average forward current	$I_{FAV}$	mA		200
Peak Forward Surge Current	$I_{FSM}$	A		4
Power dissipation	$P_{tot}$	mW		400
Maximum junction temperature	$T_j$	$^\circ\text{C}$		-65 to +125
Storage temperature range	$T_{stg}$	$^\circ\text{C}$		-65 to +125

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

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Maximum Forward voltage	$V_F$	V	$I_F=2\text{mA}$	0.33
	$V_F$	V	$I_F=15\text{mA}$	0.45
	$V_F$	V	$I_F=200\text{mA}$	1.00
Maximum Reverse current	$I_R$	$\mu\text{A}$	$V_R=25\text{V}$	0.5
Breakdown Voltage	$V_R$	V	$I_R=100\mu\text{A}$	30
Capacitance	$C_D$	pF	$V_R=1\text{V}, f=1\text{MHz}$	7(Typical))
Reverse Recovery Time	$t_{rr}$	ns	$I_F=I_R=10\text{mA}, R_L=100\Omega, I_{RR}=1\text{mA}$	5(Typical))



# BAT43WF

## ■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAT43WF	F1	Approximate 0.0084	3000	30000	180000	7" reel

## ■ Characteristics (Typical)

Fig.1 Total Capacitance

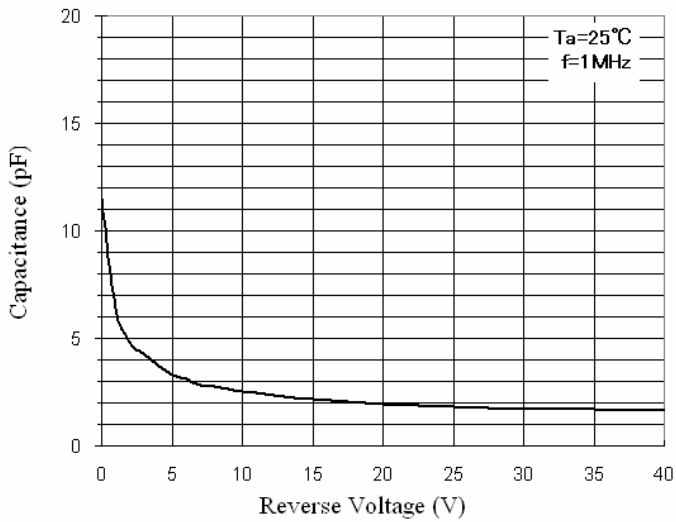


Fig.2 Forward Voltage vs Ambient Temperature

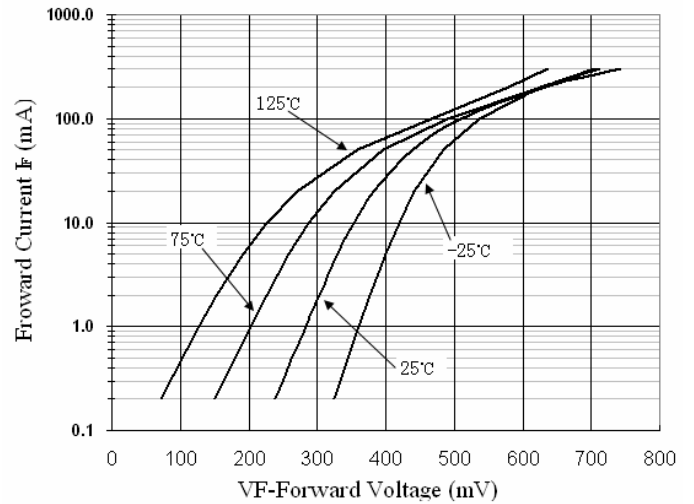
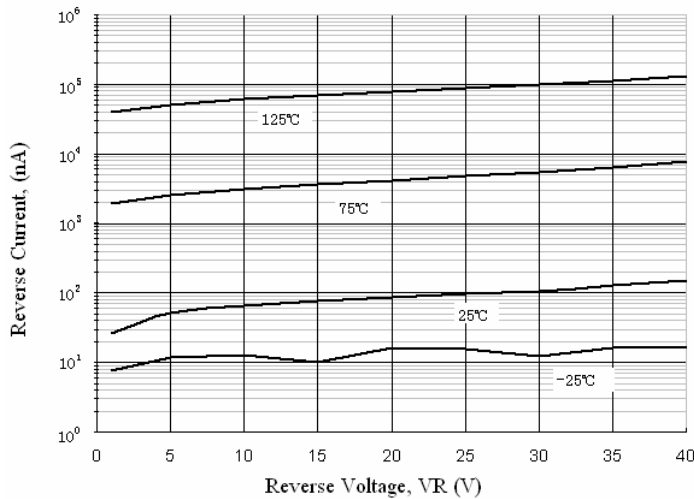
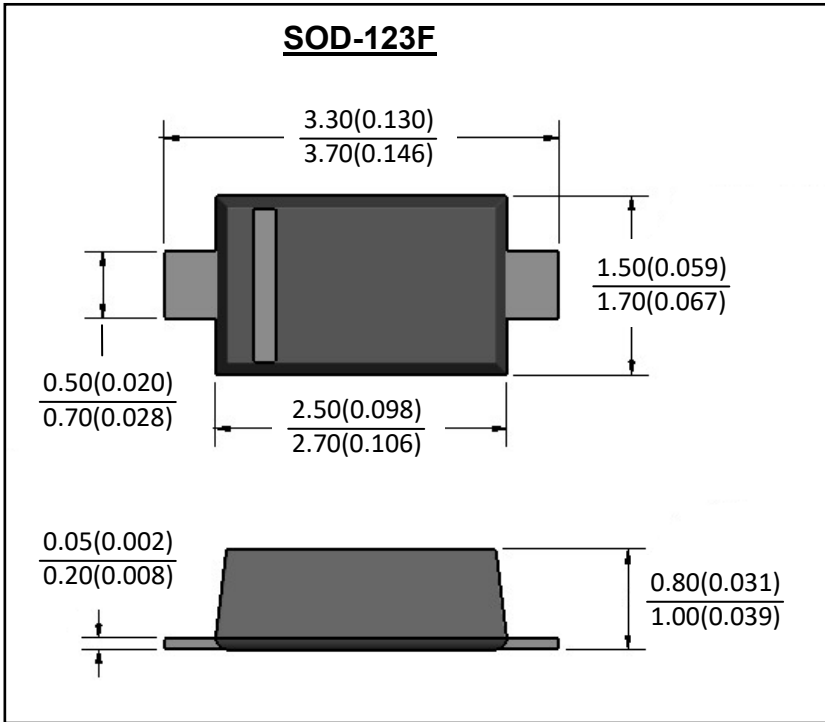


Fig.3 Reverse Current vs Reverse Voltage

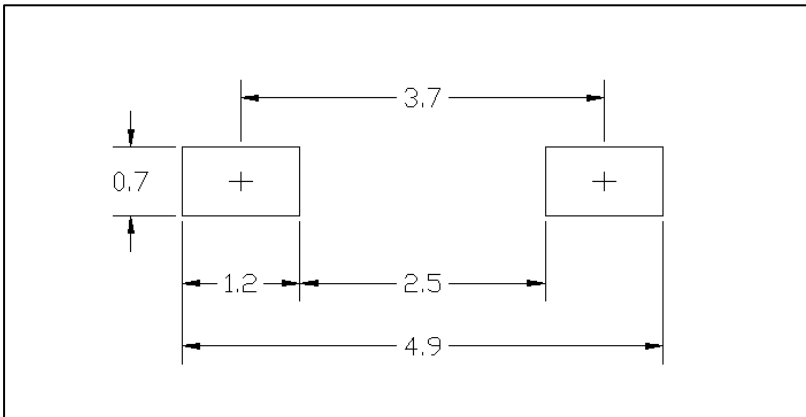




■ Outline Dimensions



■ Soldering Footprint





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