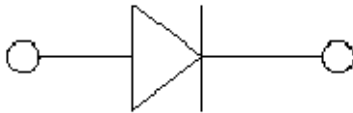


Small Signal Schottky Diode



Features

- V_R 100V
- I_{FAV} 200mA

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:** Z41

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

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Repetitive peak reverse voltage	V_{RRM}	V		100
Continuous forward current	I_F	mA		200
Non-Repetitive Peak Forward Surge Current	I_{FSM}	A	$t_p=10\text{ms}$	1
Junction temperature	T_j	$^\circ\text{C}$		125
Storage temperature range	T_{stg}	$^\circ\text{C}$		-55 to +125
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	$^\circ\text{C/W}$		500

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

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Maximum Forward voltage	V_F	mV	$I_F=1\text{mA}$	450
		mV	$I_F=200\text{mA}$	1000
Maximum Reverse current	I_R	μA	$V_R=50\text{V}, T_A=25^\circ\text{C}$	0.1
		μA	$V_R=50\text{V}, T_A=100^\circ\text{C}$	20
Minimum Breakdown voltage	V_R	V	$I_R=10\mu\text{A}$	100
Diode capacitance	C_D	pF	$V_R=1\text{V}, f=1\text{MHz}$	10

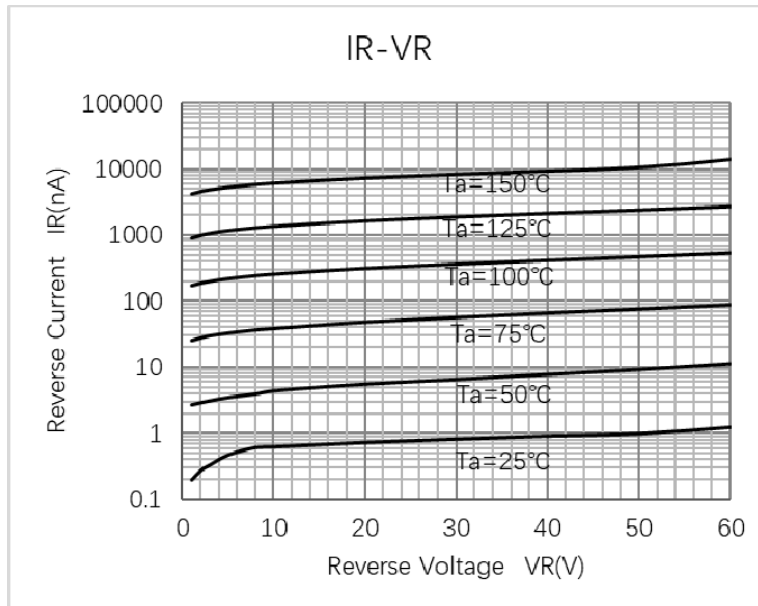
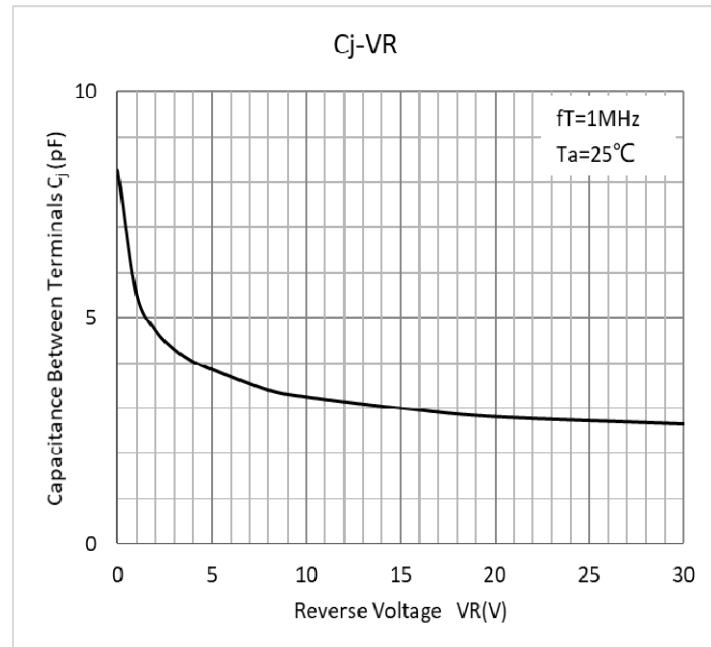
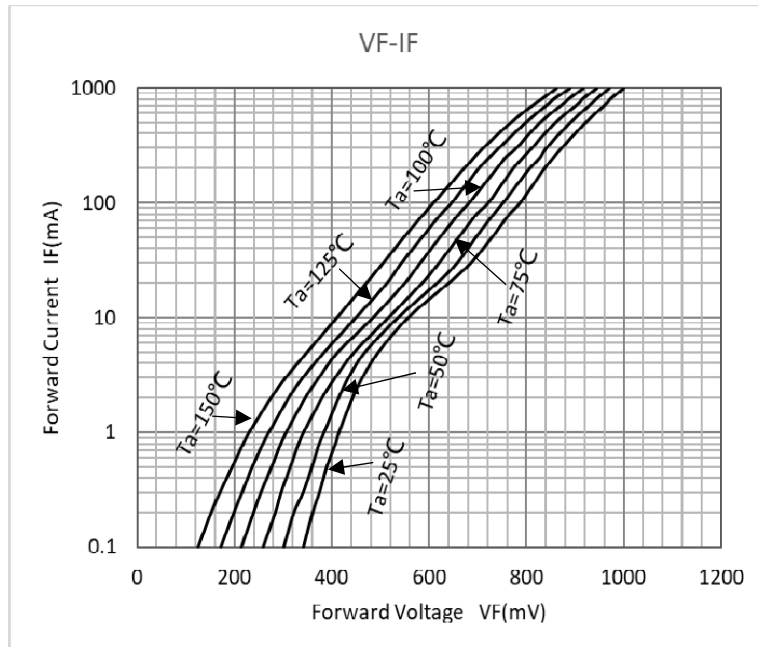


BAT41ZFILM

■ Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAT41ZFILM	F2	Approximate 0.011	3000	30000	120000	7" reel

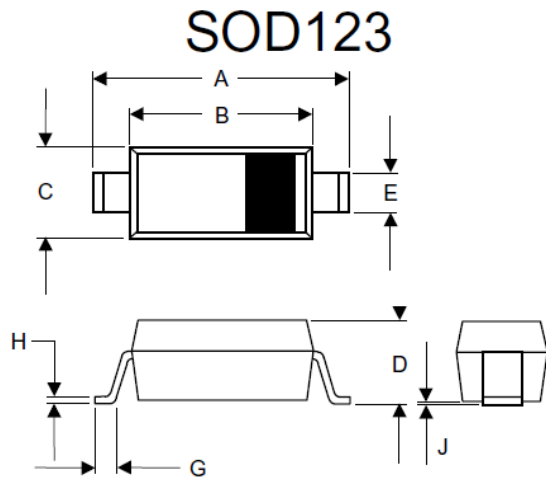
■ Characteristics (Typical)





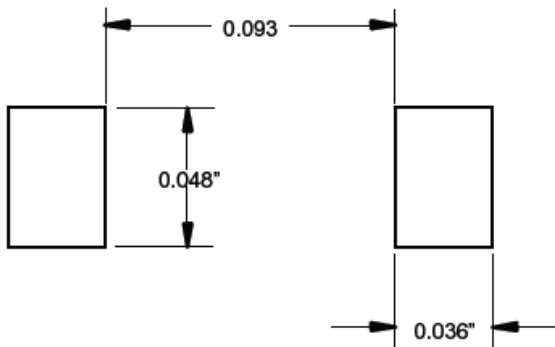
BAT41ZFILM

■ SOD-123 Package 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	

■ SOD-123 Soldering Footprint



Unit: inches



BAT41ZFILM

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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