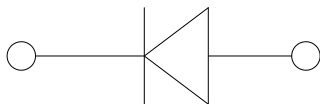
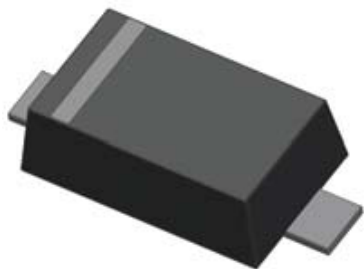


B5819W

Small-Signal Switching Diodes



Features

- VR 40V
- I_{FRM} 1.5A

Typical Applications

- Low Forward Voltage Drop

Mechanical Data

- **Package:** SOD123
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end
- **Marking:** SL

Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	Limit
Power Dissipation	PD	mW		500
Storage Temperature	TSTG	°C		-55 to +150
Junction Temperature	TJ	°C		-55 to +150
Repetitive Peak Reverse Voltage	VRM	V		40
Average Rectified Output Current	IO	A		1.0
Peak Forward Surge Current	IFSM	A	t=8.3ms Single Half Sine-wave	9.0
Repetitive Peak Forward Current	IFRM	A		1.5

Electrical Characteristics (T_a=25°C Unless otherwise specified)

Item	Symbol	Unit	Conditions	Min	Max
Reverse Breakdown Voltage	VBR	V	IR=1mA	40	
Reverse Leakage Current	IR	mA	VR=40V		1
Forward Voltage	VF	V	IF=1A		0.60
			IF=3A		0.90
Diode Capacitance	Cd	pF	VR=4V, f=1MHZ		120

Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAV19W	F1	Approximate 0.0084	3000	30000	180000	7" reel



■ Characteristics(Typical)

Fig.1 Power Dissipation VS. Ambient Temp

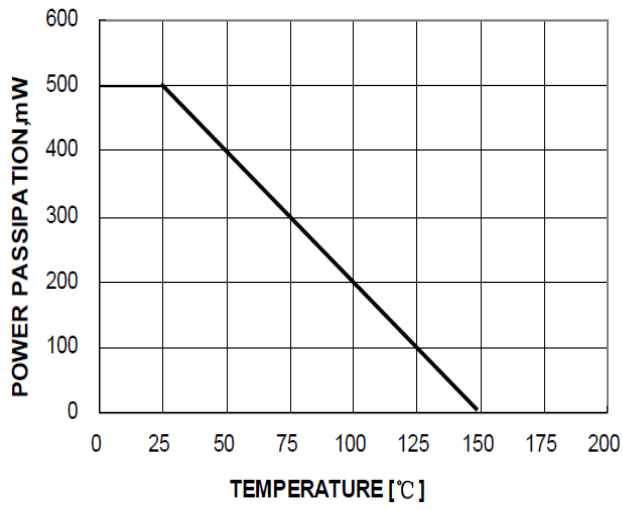
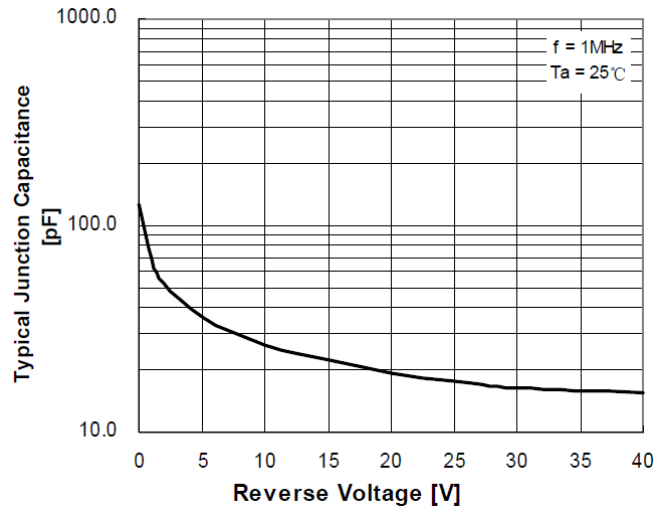


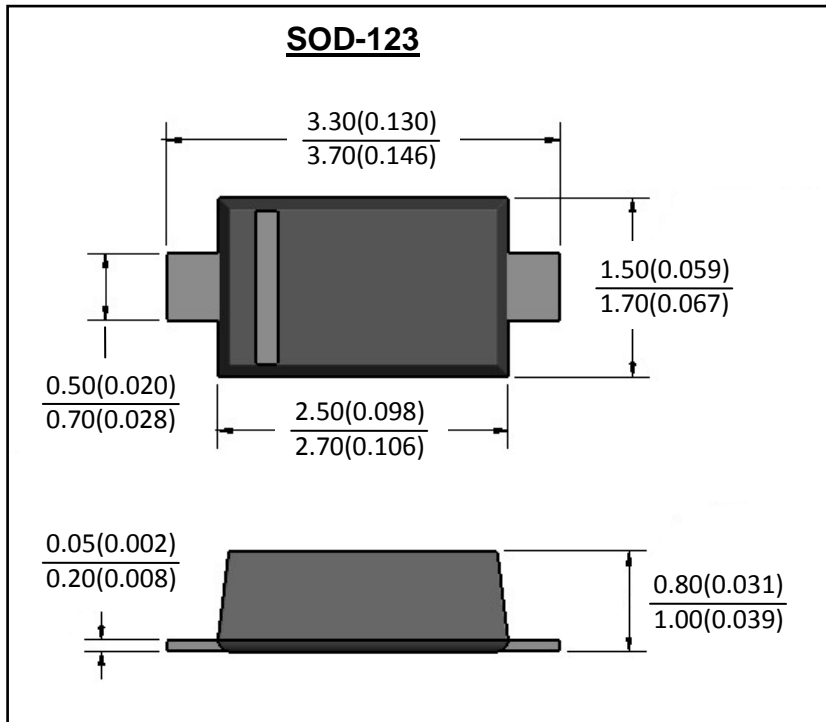
Fig.2 Total Capacitance



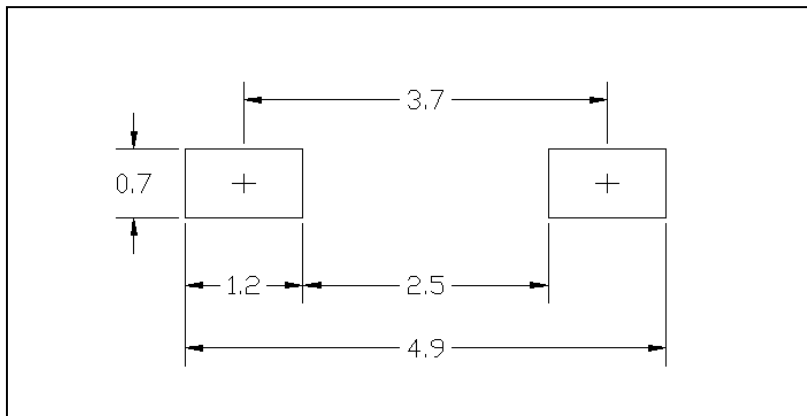


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■ Outline Dimensions



■ Soldering Footprint





B5819W

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