



BAT46W

Surface Mount Schottky Barrier Diode



Voltage Range
100 Volts
200m Watts Power Dissipation

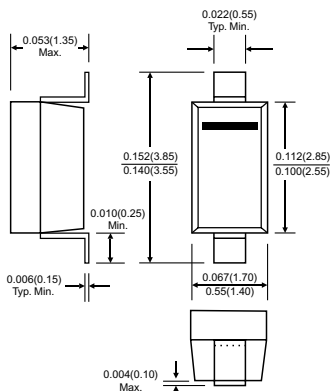
Features

- ✧ High breakdown voltage
- ✧ Low turn-on voltage
- ✧ Guard ring construction for transient protection

Mechanical Data

- ✧ Case: SOD-123, plastic
- ✧ Terminals: Solderable per MIL-STD-202, Method 208
- ✧ Polarity: Cathode band
- ✧ Marking: Date Code and Type Code or Date Code only
- ✧ Type Code: L6
- ✧ Weight: 0.01 grams (approx.)

SOD-123



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Maximum Ratings

Type Number	Symbol	BAT46W	Units
Peak Repetitive Reverse Voltage	VRRM	100	V
Working Peak Reverse Voltage	VRWM		
DC Blocking Voltage	VR		
Average Rectified Forward Current	Io	75	mA
Forward Continuous Current (Note 1)	IF	150	mA
Repetitive Peak Forward Current (Note 1) @ tp < 1.0s, Duty Cycle < 50%	IFRM	350	mA
Forward Surge Current (Note 1) @ tp=10ms	IFSM	750	mA
Power Dissipation (Note 1)	Pd	200	mW
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to + 125	°C

Electrical Characteristics

Type Number	Symbol	Min	Typ	Max	Units
Reverse Breakdown Voltage IR=100uA pulses	V(BR)	100	-	-	V
Reverse Leakage Current (Note 2) VR=1.5V VR=1.5V Tj=60°C VR=10V VR=10V Tj=60°C VR=50V VR=50V Tj=60°C VR=75V VR=75V Tj=60°C	IR	-	-	0.5 5.0 0.8 7.5 2.0 15 5.0 20	uA
Forward Voltage (Note 2) IF=0.1mA IF=10mA IF=250mA	VF	-	-	0.25 0.45 1.00	V
Junction Capacitance VR=0V, f=1.0MHz VR=1.0V, f=1.0MHz	Cj	-	10 6.0	-	pF
Thermal resistance, Junction to Ambient Air (Note1)	R θ JA	-	-	500	K/W

Notes: 1. Valid Provided that Leads are Kept at Ambient Temperature.

2. Pulse Test: Pulse width = 300uS, Duty cycle ≤ 2%..



LittleDiode supplies new, hard to find or obsolete electronic components and semiconductors all over the world.

With over two million different components listed you are sure to find the part you need.

Feel free to visit us today at our online store:

LittleDiode.com

Looking forward to providing you with the best possible service.