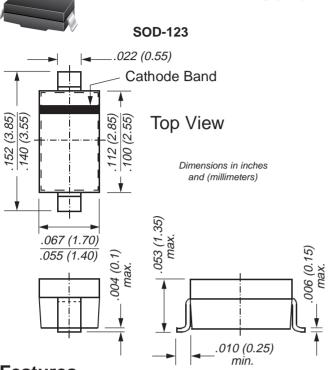
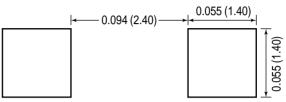


Vishay Semiconductors formerly General Semiconductor

Schottky Diode



Mounting Pad Layout



Features

- · For general purpose applications
- This diode features very low turn-on voltage and fast switching.
- This device is protected by a PN junction guard ring against excessive voltage, such as electrostatic discharges.
- This diode is also available in the DO-35 case with the type designation BAT46 and in the MiniMELF case with the type designation LL46.

Mechanical Data

Case: SOD-123 Plastic Package

Weight: approx. 0.01g Marking Code: L6

Packaging Codes/Options:

D3/10K per 13" reel (8mm tape), 30K/box D4/3K per 7" reel (8mm tape), 30K/box

Maximum Ratings & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	Value	Unit	
Repetitive Peak Reverse Voltage	VRRM	100	V	
Forward Continuous Current at T _{amb} = 25°C	lF	150 ⁽¹⁾	mA	
Repetitve Peak Forward Current at $t_P < 1s$, $\delta < 0.5$, $T_{amb} = 25^{\circ}C$	I _{FRM}	350 ⁽¹⁾	mA	
Surge Forward Current at t _p < 10ms, T _{amb} = 25°C	IFSM	750 ⁽¹⁾	mA	
Power Dissipation ⁽¹⁾ at T _{amb} = 65°C	Ptot	150 ⁽¹⁾	mW	
Thermal Resistance Junction to Ambient Air	RөJA	300 ⁽¹⁾	°C/W	
Junction Temperature	Tj	125	°C	
Ambient Operating Temperature Range	T _{amb}	-55 to +125	°C	
Storage Temperature Range	Ts	-55 to +150	°C	

Note: (1) Valid provided that electrodes are kept at ambient temperature

BAT46W

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Electrical Characteristics (T_J = 25°C unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Тур	Max	Unit
Reverse Breakdown Voltage	V(BR)R	I _R = 100μA (pulsed)	100	_	_	V
Leakage Current ⁽¹⁾	lR	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			0.5 5.0 0.8 7.5 2.0 15 5.0 20	μА
Forward Voltage ⁽¹⁾	VF	IF = 0.1mA IF = 10mA IF = 250mA	_ _ _	_ _ _	0.25 0.45 1.00	V
Capacitance	C _{tot}	V _R = 0V, f = 1MHz V _R = 1V, f = 1MHz	_	10 6	_	pF

Note: (1) Pulse Test $t_p < 300\mu s$, $\delta < 2\%$

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Datasheets for electronics components.