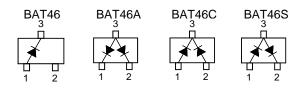
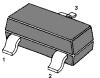
Surface Mount Schottky Barrier Diode

Features

- High breakdown voltage
- Low forward voltage
- Surface mount device





SOT-23 Plastic Package BAT46 Marking Code: **S46** BAT46A Marking Code: **A46** BAT46C Marking Code: **C46** BAT46S Marking Code: **B46**

Absolute Maximum Ratings (T_a = 25 °C)

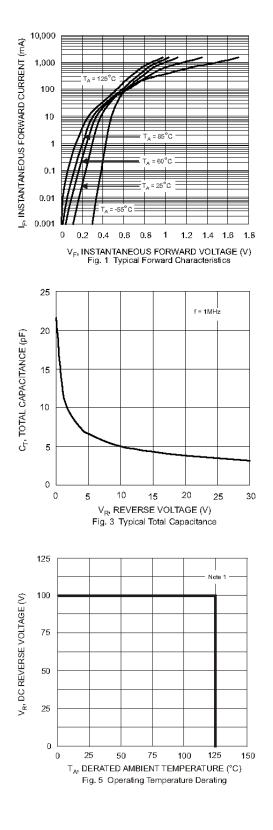
Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	100	V
Continuous Forward Current	I _{F(AV)}	150	mA
Repetitive Peak Forward Current (at tp < 1 s)	I _{FRM}	350	mA
Surge Forward Current (at tp < 10 ms)	I _{FSM}	750	mA
Operating Temperature Range	Tj	150	°C
Storage Temperature Range	T _{stg}	- 55 to + 150	°C

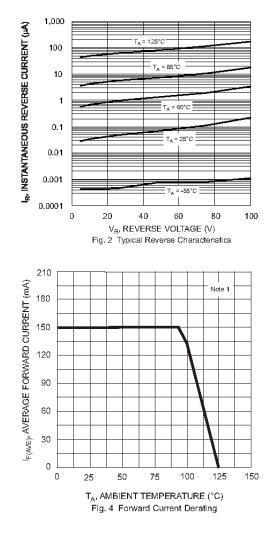
Characteristics at T_a = 25 °C

Parameter	Symbol	Min.	Тур.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 100 \ \mu A$	V _{(BR)R}	100	-	-	V
Forward Voltage at $I_F = 0.1 \text{ mA}$ at $I_F = 10 \text{ mA}$ at $I_F = 250 \text{ mA}$	V _F	- -	- -	0.25 0.45 1	V
$ \begin{array}{l} \mbox{Reverse Current} \\ \mbox{at } V_{R} = 1.5 \ V \\ \mbox{at } V_{R} = 10 \ V \\ \mbox{at } V_{R} = 50 \ V \\ \mbox{at } V_{R} = 75 \ V \\ \mbox{at } V_{R} = 75 \ V \\ \mbox{at } V_{R} = 1.5 \ V, \ T_{j} = 60 \ ^{\circ}\ C \\ \mbox{at } V_{R} = 50 \ V, \ T_{j} = 60 \ ^{\circ}\ C \\ \mbox{at } V_{R} = 75 \ V, \ T_{j} = 60 \ ^{\circ}\ C \ C \\ \mbox{at } V_{R} = 75 \ V, \ T_{j} = 60 \ ^{\circ}\ C \ C \ C \ C \ C \ C \ C \ C \ C \ C$	I _R			0.5 0.8 2 5 7.5 15 20	μΑ
Total Capacitance at $V_R = 0 V$, f = 1 MHz at $V_R = 1 V$, f = 1 MHz	C _{tot}	-	20 12	-	pF



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Note 1: Part mounted on FR-4 board with recommended pad layout, which can be found on our website at http://www.diodes.com/datasheets/ap02001.pdf.



Dated : 08/01/2012 Rev:01

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