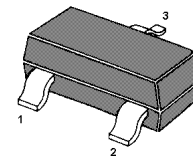
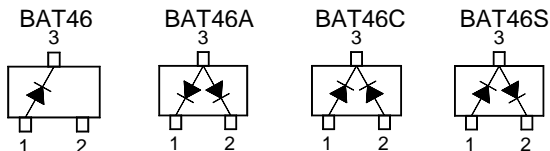


BAT46 / A / C / S

Surface Mount Schottky Barrier Diode

Features

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



TO-236 Plastic Package

BAT46 Marking Code: **S46**

BAT46A Marking Code: **A46**

BAT46C Marking Code: **C46**

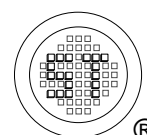
BAT46S Marking Code: **B46**

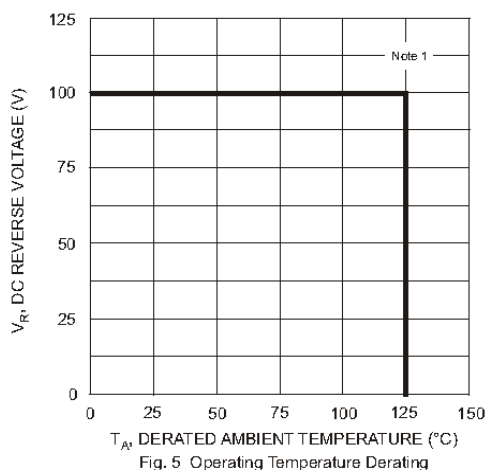
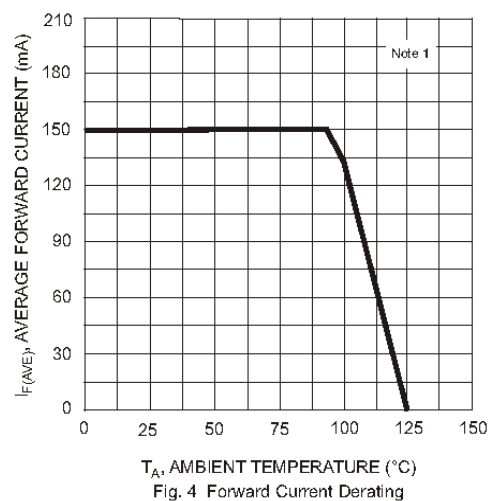
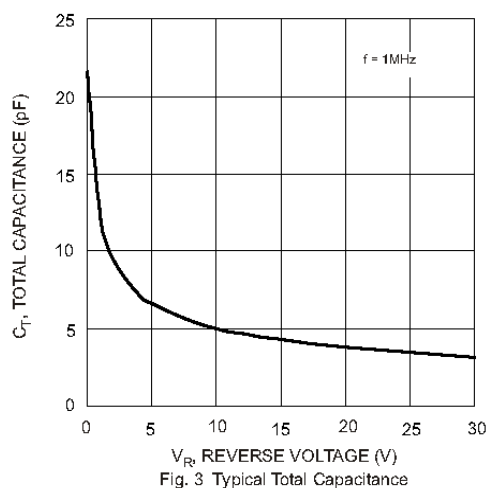
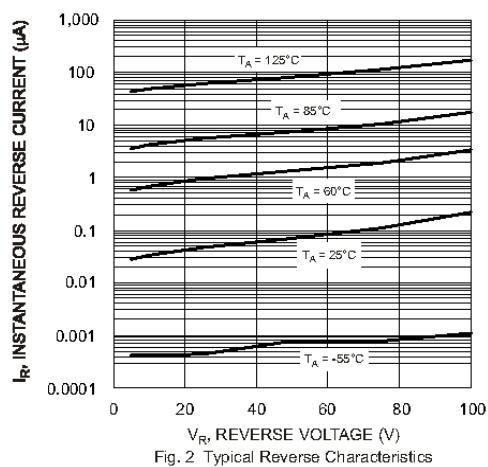
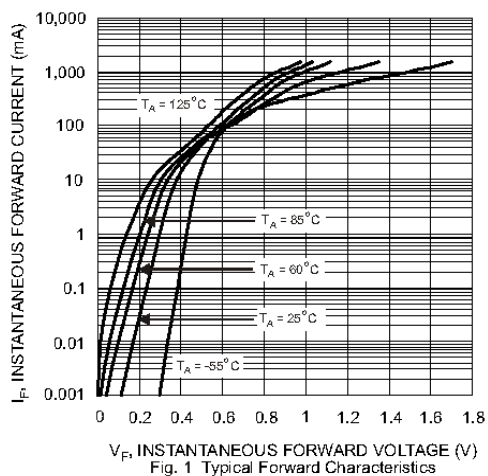
Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

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 $t_p < 1$ s)	I_{FRM}	350	mA
Surge Forward Current (at $t_p < 10$ ms)	I_{FSM}	750	mA
Operating Temperature Range	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150	$^\circ\text{C}$

Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 100\ \mu\text{A}$	$V_{(BR)R}$	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
Reverse Current at $V_R = 1.5\ \text{V}$ at $V_R = 10\ \text{V}$ at $V_R = 50\ \text{V}$ at $V_R = 75\ \text{V}$ at $V_R = 1.5\ \text{V}$, $T_j = 60^\circ\text{C}$ at $V_R = 10\ \text{V}$, $T_j = 60^\circ\text{C}$ at $V_R = 50\ \text{V}$, $T_j = 60^\circ\text{C}$ at $V_R = 75\ \text{V}$, $T_j = 60^\circ\text{C}$	I_R	- - - - - - - -	- - - - - - - -	0.5 0.8 2 5 5 7.5 15 20	μA
Total Capacitance at $V_R = 0\ \text{V}$, $f = 1\ \text{MHz}$ at $V_R = 1\ \text{V}$, $f = 1\ \text{MHz}$	C_{tot}	- -	20 12	- -	pF





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>.

