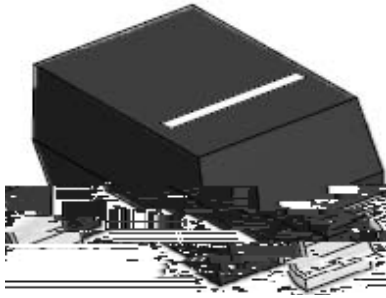


## Small-Signal Fast Switching Diodes



### Features

$X_{\text{OUT}} \leq 100 \text{ pF}$   
 $Q_{\text{REX}} \leq 0.1 \text{ nC}$

### Typical Applications

Signal processing

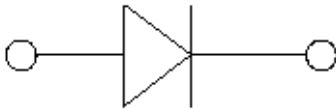
### Mechanical Data

Package: SOD-323

Terminals: 2  
Lead length: 0.5 mm

Polarity: Cathode marked with a dot

Marking: 01



### Maximum Ratings $V_{\text{max}} = 100 \text{ V}$ , $I_{\text{max}} = 100 \text{ mA}$

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Reverse voltage	$V_{\text{R}}$	V		100
Forward voltage	$V_{\text{F}}$	V	$I_{\text{F}} = 10 \text{ mA}$	0.7
Reverse current	$I_{\text{R}}$	mA	$V_{\text{R}} = 100 \text{ V}$	1
Forward current	$I_{\text{F}}$	mA		100
Peak forward current	$I_{\text{FM}}$	mA		100
Power dissipation	$P_{\text{D}}$	mW		100
Storage temperature	$T_{\text{STG}}$	°C		-55 to 150
Operating temperature	$T_{\text{OP}}$	°C		-55 to 150

### Electrical Characteristics $T_{\text{a}} = 25^\circ\text{C}$ Unless otherwise specified

PARAMETER	Symbol	UNIT	Conditions	Min	Max
Reverse leakage current	$I_{\text{R}}$	mA	$V_{\text{R}} = 100 \text{ V}$	0	1
Forward voltage	$V_{\text{F}}$	V	$I_{\text{F}} = 10 \text{ mA}$	0.6	0.8
Dynamic resistance	$r_{\text{d}}$	$\Omega$	$I_{\text{F}} = 10 \text{ mA}$	10	20
Reverse recovery time	$t_{\text{RR}}$	ns	$V_{\text{R}} = 100 \text{ V}$	10	20
Storage capacitance	$C_{\text{S}}$	pF	$V_{\text{R}} = 100 \text{ V}$	10	20



# BAS416

## Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
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Disclaimer

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