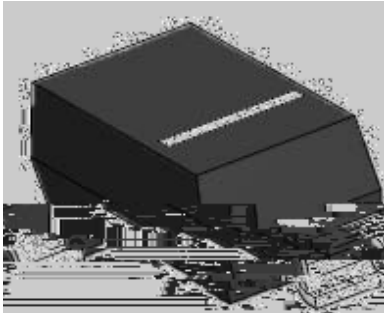


Small-Signal Fast Switching Diodes



Features

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

Typical Applications

Signal clamping

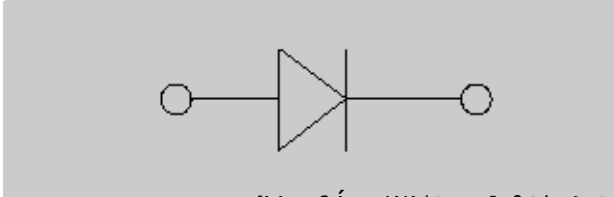
Mechanical Data

Package: SOD-323

Terminals: 2
Lead length: 0.5 mm

Polarity: Cathode marked with a horizontal line

Marking: 01



Maximum Ratings

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Reverse current	I_{R}	mA	$V_{\text{R}} = 0 \text{ V}$	1
Forward current	I_{F}	mA	$V_{\text{F}} = 0.7 \text{ V}$	100
Reverse recovery time	t_{RR}	ns	$I_{\text{F}} = 10 \text{ mA}$, $V_{\text{R}} = 5 \text{ V}$	10
Storage time	t_{S}	ns	$I_{\text{F}} = 10 \text{ mA}$, $V_{\text{R}} = 5 \text{ V}$	10
Forward voltage	V_{F}	V	$I_{\text{F}} = 10 \text{ mA}$	0.7
Reverse voltage	V_{R}	V	$I_{\text{F}} = 0$	5
Power dissipation	P_{D}	mW	$T_{\text{a}} = 25^\circ\text{C}$	100
Operating temperature	T_{a}	$^\circ\text{C}$		-55 to 150

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

PARAMETER	Symbol	UNIT	Conditions	Min	Max
Forward voltage	V_{F}	V	$I_{\text{F}} = 10 \text{ mA}$	0.6	0.8
Reverse current	I_{R}	mA	$V_{\text{R}} = 5 \text{ V}$	0.1	1
Reverse recovery time	t_{RR}	ns	$I_{\text{F}} = 10 \text{ mA}$, $V_{\text{R}} = 5 \text{ V}$	5	15
Storage time	t_{S}	ns	$I_{\text{F}} = 10 \text{ mA}$, $V_{\text{R}} = 5 \text{ V}$	5	15
Capacitance	C_{J}	pF	$V_{\text{R}} = 0 \text{ V}$	5	15
Reverse recovery charge	Q_{RR}	nC	$I_{\text{F}} = 10 \text{ mA}$, $V_{\text{R}} = 5 \text{ V}$	0.05	0.1



BAS416

Ordering Information (Example)

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

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