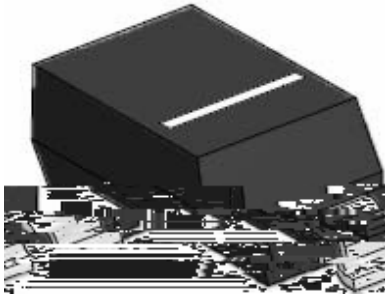


## High Speed Switching Diode



### Features

$V_R$  30

### Typical Applications

Extreme fast switches

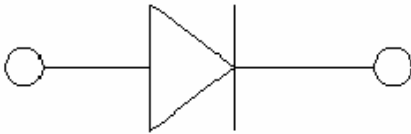
### Mechanical Data

**Package:** SOD-323

**Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102

**Polarity:** Cathode line denotes the cathode end

**Marking:** 4P



### Maximum Ratings ( $T_a=25$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Repetitive peak reverse voltage	$V_{RRM}$	V		300
Non-Repetitive Peak forward surge current	$I_{FSM}$	A	$t_p=1\mu s$ $t_p=1ms$ $t_p=10ms$	4 2.3 1.7
Average forward current	$I_{FAV}$	mA		225
Power dissipation	$P_D$	mW		200
Thermal Resistance From Junction To Ambient	$R_{JA}$	/W		625
Junction temperature	$T_j$			-55 to +150
Storage temperature range	$T_{stg}$			-55 to +150

### Electrical Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Maximum Forward voltage	$V_F$	V	$I_F=100mA$	1
Maximum Reverse current	$I_R$	nA	$V_R=240V$	100
		uA	$V_R=240V, T_j = 150$ C	100
Minimum Breakdown voltage	$V_R$	V	$I_R=100\mu A$	300
Maximum Diode capacitance	$C_D$	pF	$V_R=0V, f=1MHz$	5
Maximum Reverse recovery time	$t_{rr}$	ns	$I_F=30mA, I_{rr}=0.1I_R, R_L=100$	50



# BAS21J

## Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAS21J	F2	Approximate 0.0048	3000	30000	120000	7" reel

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# BAS21J

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## Disclaimer

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