

Vishay Semiconductors

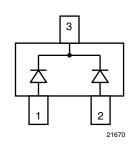
Small Signal Switching Diode, Dual

Features

- · Silicon epitaxial planar diode
- Fast switching dual diode with common cathode
- · AEC-Q101 qualified
- Compliant to RoHS directive 2002/95/EC and in accordance to WEEE 2002/96/EC







Mechanical Data

Case: SOT-23

Weight: approx. 8.1 mg
Packaging codes/options:

GS18/10K per 13" reel (8 mm tape), 10K/box GS08/3K per 7" reel (8 mm tape), 15K/box

Parts Table

Part	Ordering code	Marking	Remarks	
BAV23C-V-G	BAV23C-V-G-18 or BAV23C-V-G-08	KT7	Tape and reel	

Absolute Maximum Ratings

T_{amb} = 25 °C, unless otherwise specified

Parameter	Test condition	Symbol	Value	Unit
Continuous reverse voltage		V_{R}	200	V
Repetitive peak reverse voltage		V_{RRM}	250	V
Non-repetitive peak forward current	t = 1 μs	I _{FSM}	9.0	А
Non-repetitive peak forward surge current	t = 1 s	I _{FSM}	0.5	А
Maximum average forward rectified current	Measured under pulse conditions; pulse time = $t_p \le 0.3 \text{ ms}$	$I_{F(AV)}$	200	mA
Forward continuous current	Device on fiberglass substrate	I _F	400	mA
Repetitive peak forward current		I _{FRM}	625	mA
Power dissipation	Device on fiberglass substrate	P _{tot}	350	mW

^{**} Please see document "Vishay Material Category Policy" www.vishay.com/doc?99902

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Thermal Characteristics

T_{amb} = 25 °C, unless otherwise specified

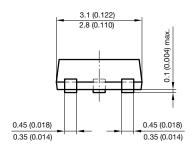
Parameter	Test condition	Symbol	Value	Unit
Thermal resistance junction to ambient air	Device on fiberglass substrate	R_{thJA}	357	K/W
Junction temperature		T _j	150	°C
Storage temperature range		$T_j = T_{stg}$	- 65 to + 150	°C

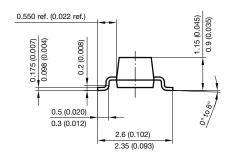
Electrical Characteristics

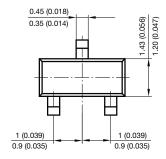
 T_{amb} = 25 °C, unless otherwise specified

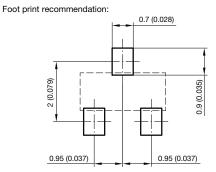
Parameter	Test condition	Symbol	Min.	Тур.	Max.	Unit
Reverse breakdown voltage	$I_R = 100 \mu A, t_p = 300 \mu s$	$V_{(BR)}$	250			V
Forward voltage	I _F = 100 mA	V_{F}			1000	mV
	I _F = 200 mA	V_{F}			1250	mV
Reverse current	V _R = 200 V	I _R			100	nA
	V _R = 200 V, T _j = 150 °C	I _R			100	μΑ
Dynamic forward resistance	I _F = 10 mA	r _f		5		Ω
Diode capacitance	V _R = 0, f = 1 MHz	C _D			5	pF
Reverse recovery time	$I_F = I_R = 30 \text{ mA}, R_L = 100 \Omega$ $I_R = 3 \text{ mA}$	t _{rr}			50	ns

Package Dimensions in millimeters (inches): SOT-23









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