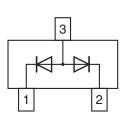
BAW56-G

www.vishay.com

Vishay Semiconductors

Small Signal Switching Diode, Dual





FEATURES

- Silicon epitaxial planar diode
- · Fast switching dual diode with common anode
- AEC-Q101 qualified
- Base P/N-G3 green, commercial grade
- Material categorization: For definitions of compliance please see <u>www.vishay.com/doc?99912</u>



COMPLIANT HALOGEN FREE GREEN (5-2008)

MECHANICAL DATA

Case: SOT-23

Weight: approx. 8.1 mg

Packaging codes/options:

18/10K per 13" reel (8 mm tape), 10K(/box 08/3K per 7" reel (8 mm tape), 15K/box

PARTS TABLE				
PART	ORDERING CODE	INTERNAL CONSTRUCTION	TYPE MARKING	REMARKS
BAW56-G	BAW56-G3-08 or BAW56-G3-18	Dual diodes common anode	JDG	Tape and reel

ABSOLUTE MAXIMUM RATINGS (T _{amb} = 25 °C, unless otherwise specified)				
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT
Repetitive peak reverse voltage = working peak reverse voltage = DC blocking voltage		$V_{R} = V_{RRM}$	70	V
Forward continuous current		١ _F	250	mA
	t _p = 1 μs	I _{FSM}	2	А
Non repetitive peak forward current	t _p = 1 ms	I _{FSM}	1	А
	t _p = 1 s	I _{FSM}	0.5	А
Power dissipation ⁽¹⁾		P _{tot}	350	mW

THERMAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)				
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT
Thermal resistance junction to ambient air		R _{thJA} ⁽¹⁾	430	K/W
Junction temperature		Tj	150	°C
Storage temperature range		T _{stg}	- 65 to + 150	°C
Operating temperature range		T _{op}	- 55 to + 150	°C

Note

⁽¹⁾ Device on fiberglass substrate

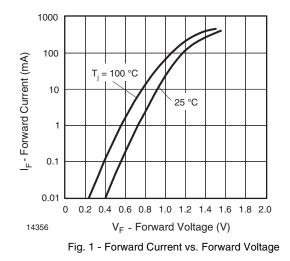
Document Number: 85872

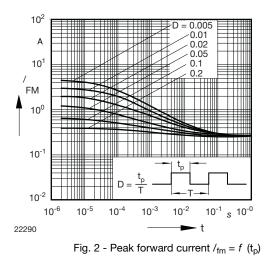
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ELECTRICAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL	MIN.	TYP.	MAX.	UNIT
	I _F = 1 mA	V _F			0.715	V
Forward valtage	I _F = 10 mA	VF			0.855	V
Forward voltage	I _F = 50 mA	V _F			1	V
	I _F = 150 mA	V _F			1.25	V
	V _R = 70 V	I _R			2500	nA
Reverse current	$V_{R} = 70 \text{ V}, \text{ T}_{j} = 150 ^{\circ}\text{C}$	I _R			100	μA
	V _R = 25 V, T _j = 150 °C	I _R			30	μA
Diode capacitance	$V_F = V_R = 0$, f = 1 MHz	CD			2	pF
Reverse recovery time	I_F =10 mA to i_R =1 mA, V_R = 6 V, R_L = 100 Ω	t _{rr}			6	ns

TYPICAL CHARACTERISTICS ($T_{amb} = 25 \text{ °C}$, unless otherwise specified)

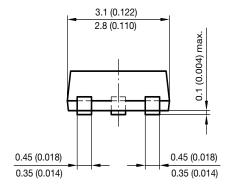


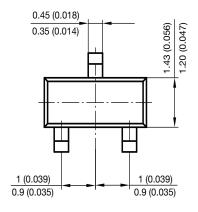


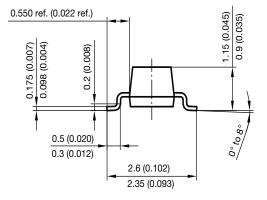


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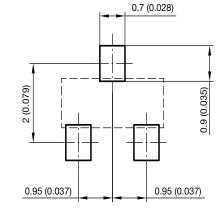
PACKAGE DIMENSIONS in millimeters (inches): SOT-23







Foot print recommendation:



Document no.: 6.541-5014.01-4 Rev. 8 - Date: 23.Sept.2009 17418

Rev. 1.1, 25-Jun-13 3 Document Number: 85872 For technical questions within your region: DiodesAmericas@vishay.com, DiodesAsia@vishay.com, DiodesEurope@vishay.com THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE PRODUCTS DESCRIBED HEREIN AND THIS DOCUMENT ARE SUBJECT TO SPECIFIC DISCLAIMERS, SET FORTH AT www.vishay.com/doc?91000



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