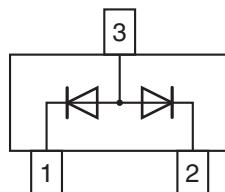


Small Signal Switching Diode, Dual



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
www.vishay.com/doc?99912



RoHS
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

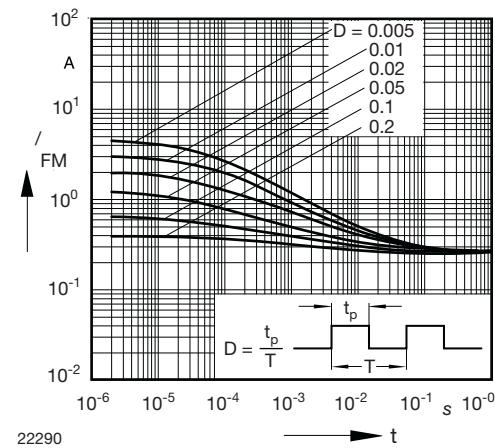
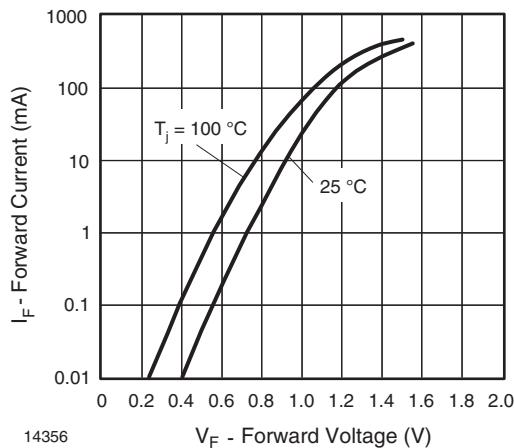
ABSOLUTE MAXIMUM RATINGS ($T_{amb} = 25^\circ\text{C}$, unless otherwise specified)				
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT
Repetitive peak reverse voltage = working peak reverse voltage = DC blocking voltage		$V_R = V_{RRM}$	70	V
Forward continuous current		I_F	250	mA
Non repetitive peak forward current	$t_p = 1 \mu\text{s}$	I_{FSM}	2	A
	$t_p = 1 \text{ ms}$	I_{FSM}	1	A
	$t_p = 1 \text{ s}$	I_{FSM}	0.5	A
Power dissipation (1)		P_{tot}	350	mW

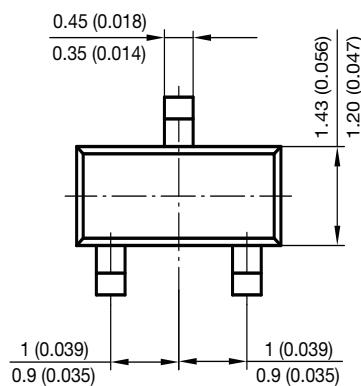
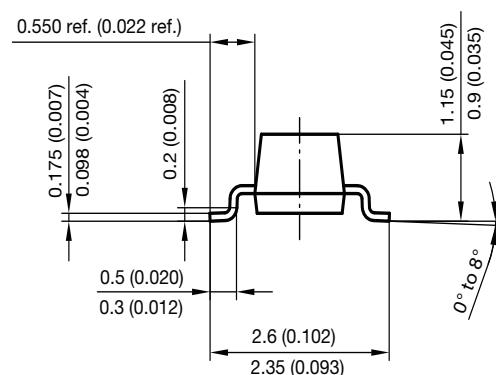
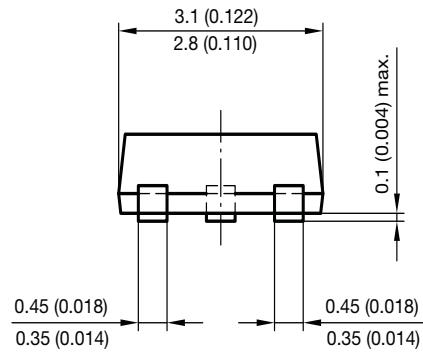
THERMAL CHARACTERISTICS ($T_{amb} = 25^\circ\text{C}$, unless otherwise specified)				
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT
Thermal resistance junction to ambient air		R_{thJA} (1)	430	K/W
Junction temperature		T_j	150	°C
Storage temperature range		T_{stg}	- 65 to + 150	°C
Operating temperature range		T_{op}	- 55 to + 150	°C

Note

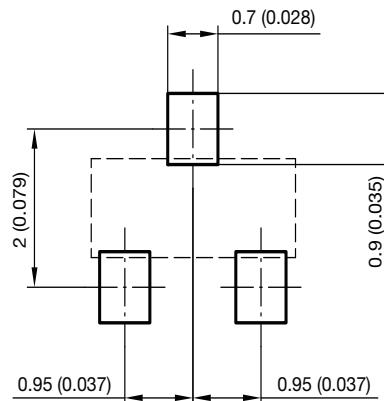
(1) Device on fiberglass substrate

ELECTRICAL CHARACTERISTICS ($T_{amb} = 25^\circ C$, unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL	MIN.	TYP.	MAX.	UNIT
Forward voltage	$I_F = 1 \text{ mA}$	V_F			0.715	V
	$I_F = 10 \text{ mA}$	V_F			0.855	V
	$I_F = 50 \text{ mA}$	V_F			1	V
	$I_F = 150 \text{ mA}$	V_F			1.25	V
Reverse current	$V_R = 70 \text{ V}$	I_R			2500	nA
	$V_R = 70 \text{ V}, T_j = 150^\circ C$	I_R			100	μA
	$V_R = 25 \text{ V}, T_j = 150^\circ C$	I_R			30	μA
Diode capacitance	$V_F = V_R = 0, f = 1 \text{ MHz}$	C_D			2	pF
Reverse recovery time	$I_F = 10 \text{ mA} \text{ to } I_R = 1 \text{ mA}, V_R = 6 \text{ V}, R_L = 100 \Omega$	t_{rr}			6	ns

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


PACKAGE DIMENSIONS in millimeters (inches): **SOT-23**


Foot print recommendation:



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Rev. 8 - Date: 23.Sept.2009
17418

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