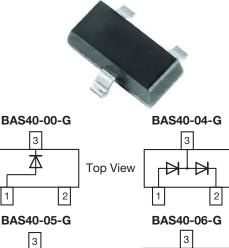
BAS40-00-G to BAS40-06-G

Vishay Semiconductors

Small Signal Schottky Diodes, Single and Dual



www.vishay.com

BAS40-05-G H Top View

DESIGN SUPPORT TOOLS click logo to get started



BAS40-06-G

Available					
PARTS TABLE					
PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS	
BAS40-00-G	BAS40-00-G3-08 or BAS40-00-G3-18	Single	43G		
BAS40-04-G	BAS40-04-G3-08 or BAS40-04-G3-18	Dual serial	44G	Tapa and real	
BAS40-05-G	BAS40-05-G3-08 or BAS40-05-G3-18	Common cathode	45G	Tape and reel	

2

BAS40-06-G3-08 or BAS40-06-G3-18

ABSOLUTE MAXIMUM RATINGS (T _{amb} = 25 °C, unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT		
Repetitive peak reverse voltage		$V_{RRM} = V_{RWM} = V_{R}$	40	V		
Forward continuous current ⁽¹⁾		l _F	200	mA		
Surge forward current ⁽¹⁾	t _p < 1 s	I _{FSM}	600	mA		
Power dissipation ⁽¹⁾		P _{tot}	200	mW		

Note

⁽¹⁾ Device on fiberglass substrate, see layout on next page

THERMAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT		
Thermal resistance junction to ambient air ⁽¹⁾		R _{thJA}	500	K/W		
Junction temperature		Tj	125	°C		
Storage temperature range		T _{stg}	-65 to +150	°C		
Operating temperature range		T _{op}	-55 to +125	C°		

Note

⁽¹⁾ Device on fiberglass substrate, see layout on next page

Rev. 1.2, 13-Feb-18

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FEATURES

- · These diodes feature very low turn-on voltage and fast switching
- These devices are protected by a PN junction guardring against excessive voltage, such as electrostatic discharges
- AEC-Q101 qualified available (part number on request)
- Base P/N-G3 green, commercial grade
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

MECHANICAL DATA

Case: SOT-23

Weight: approx. 8.1 mg

Common anode

Packaging codes/options:

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

COMPLIANT HALOGEN FREE <u>GREEN</u> (5-2008)

46G

e3

RoHS

BAS40-00-G to BAS40-06-G



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ELECTRICAL CHARACTERISTICS (T_{amb} = 25 °C, unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL	MIN.	TYP.	MAX.	UNIT
Reverse breakdown voltage	I _R = 10 μA (pulsed)	V _(BR)	40			V
Leakage current	V _R = 30 V	I _R		20	100	nA
Forward voltage	I _F = 1 mA	V _F			380	mV
Forward voltage ⁽¹⁾	I _F = 40 mA	V _F			1000	mV
Diode capacitance	$V_{R} = 0 V, f = 1 MHz$	CD		4	5	pF
Reverse recovery time	$I_F = I_R = 10$ mA, $i_R = 1$ mA, $R_L = 100$ Ω	t _{rr}			5	ns

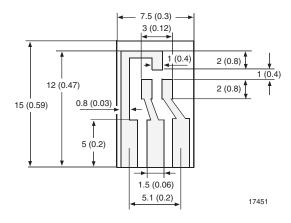
Note

⁽¹⁾ Pulse test $t_p < 300 \ \mu s$

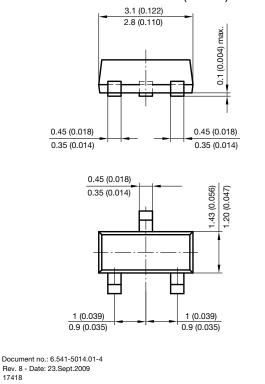
LAYOUT FOR R_{thJA} TEST

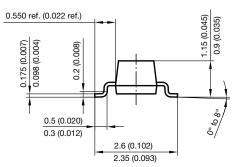
Thickness:

Fiberglass 1.5 mm (0.059 inches) Copper leads 0.3 mm (0.012 inches)

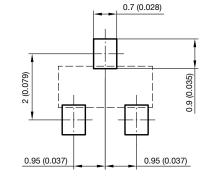


PACKAGE DIMENSIONS in millimeters (inches): SOT-23





Foot print recommendation:



Rev. 1.2, 13-Feb-18

2

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