HAY. www.vishay.com

BAS70-00-G to BAS70-06-G

These diodes feature very low turn-on voltage

 These devices are protected by a PN junction guard ring against excessive voltage, such as

• Base P/N-G3 - green, commercial grade

18/10K per 13" reel (8 mm tape), 10K/box

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

for definitions of compliance please see

Vishay Semiconductors

Small Signal Schottky Diodes, Single and Dual

FEATURES

and fast switching

electrostatic discharges

(part number on request)

• Material categorization:

MECHANICAL DATA

Weight: approx. 8.1 mg

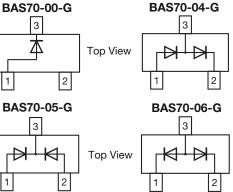
Packaging codes/options:

Case: SOT-23

• AEC-Q101 gualified available

www.vishay.com/doc?99912





DESIGN SUPPORT TOOLS click logo to get started



PARTS TABLE PART **ORDERING CODE CIRCUIT CONFIGURATION TYPE MARKING** REMARKS BAS70-00-G BAS70-00-G3-08 or BAS70-00-G3-18 73G Single Tape and reel BAS70-04-G BAS70-04-G3-08 or BAS70-04-G3-18 74G Dual serial Tape and reel BAS70-05-G BAS70-05-G3-08 or BAS70-05-G3-18 Common cathode 75G Tape and reel BAS70-06-G BAS70-06-G3-08 or BAS70-06-G3-18 Common anode 76G Tape and reel

ABSOLUTE MAXIMUM RATINGS (T _{amb} = 25 °C, unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT		
Repetitive peak reverse voltage		$V_{RRM} = V_{RRM} = V_{R}$	70	V		
Forward continuous current ⁽¹⁾		I _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 ($T_{amb} = 25 \text{ °C}$, unless otherwise specified)								
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT				
Thermal resistance junction to ambient air (1)		R _{thJA}	500	K/W				
Junction temperature		Тj	125	°C				
Storage temperature range		T _{stg}	-65 to +150	°C				
Operating temperature range		T _{op}	-55 to +125	٥°				

Note

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

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Document Number: 85157

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HALOGEN FREE GREEN

(5-2008)

BAS70-00-G to BAS70-06-G



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ELECTRICAL CHARACTERISTICS (T_{amb} = 25 °C, unless otherwise specified)							
PARAMETER	TEST CONDITION	SYMBOL	MIN.	TYP.	MAX.	UNIT	
Reserve breakdown voltage	$I_R = 10 \ \mu A$ (pulsed)	V _(BR)	70			V	
Leakage current	V _R = 50 V	I _R		20	100	nA	
Forward voltage	I _F = 1.0 mA	V _F			410	mV	
Forward voltage ⁽¹⁾	I _F = 15 mA	VF			1000	mV	
Diode capacitance	V _R = 0 V, f = 1 MHz	CD		1.5	2	pF	
Reserve recovery time	$I_{F} = I_{R} = 10 \text{ mA}, i_{R} = 1 \text{ mA}, \\ R_{L} = 100 \Omega$	t _{rr}			5	ns	

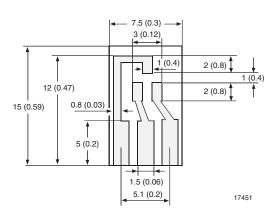
Note

⁽¹⁾ Pulse test; $t_p \leq 300 \ \mu s$

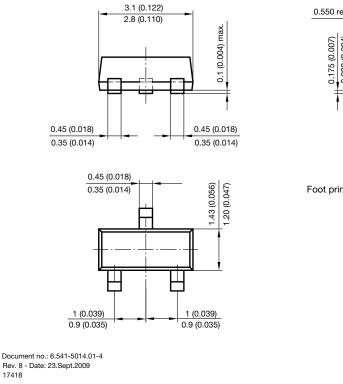
LAYOUT FOR R_{thJA} TEST

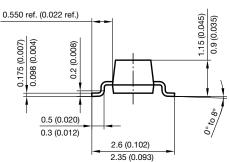
Thickness:

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

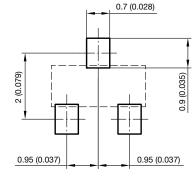


PACKAGE DIMENSIONS in millimeters (inches): SOT-23





Foot print recommendation:



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