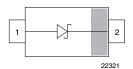
BAS70-02V



Vishay Semiconductors

Small Signal Schottky Diode





LINKS TO ADDITIONAL RESOURCES



MECHANICAL DATA

Case: SOD-523

Weight: approx. 1.4 mg

Molding compound flammability rating: UL 94 V-0 Terminals: high temperature soldering guaranteed:

260 °C/10 s at terminals

Packaging codes / options:

08/8K per 7" reel (8 mm tape)

FEATURES • This diode features very low turn-on voltage and fast switching

- This device is protected by a PN junction guard ring against excessive voltage, such as electrostatic discharges
- AEC-Q101 gualified available
- Space saving SOD-523 package
- Base P/N-G3 RoHS-compliant, commercial grade
- Base P/N-HG3 RoHS-compliant, AEC-Q101 qualified
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

PARTS TABLE						
PART	ORDERING CODE	AEC-Q101 QUALIFIED	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS	
BAS70-02V	BAS70-02V-G3-08	no	Single	v	Tapa and real	
	BAS70-02V-HG3-08	yes	Single	.Х	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}	70	V	
Forward continuous current		I _F	100	mA	
Surge forward current	t_p = 10 ms square wave, T_j = 25 °C prior to surge	I _{FSM}	600	mA	
Power dissipation on FR-4 board with recommended soldering foo		P _{tot}	150	mW	

THERMAL CHARACTERISTICS (T_{amb} = 25 °C, unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL VALUE		UNIT		
Thermal resistance junction to ambient air	on FR-4 board according to JEDEC [®] 51-3 with recommended soldering footprint	R _{thJA} 680		K/W		
Thermal resistance junction to lead		R _{thJL}	480	K/W		
Junction temperature		Tj	125	°C		
Operating temperature range		T _{op}	-55 to +125	°C		
Storage temperature range		T _{stg}	-65 to +150	°C		

ELECTRICAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL	MIN.	TYP.	MAX.	UNIT
Reserve breakdown voltage	I _R = 10 μA (pulsed)	V _(BR)	70			V
Leakage current	$V_{R} = 50 \text{ V}, \text{ t}_{p} < 300 \mu\text{s}$	I _R		20	100	nA
Forward voltage	t _p < 300 μs, I _F = 1.0 mA	VF			410	mV
Forward voltage	t _p < 300 μs, I _F = 15 mA	V _F			1000	mV
Diode capacitance	V _R = 0 V, f = 1 MHz	CD		1.5	2	pF
Reserve recovery time	$I_{\rm F}$ = 10 mA, $I_{\rm R}$ = 10 mA, $i_{\rm R}$ = 1 mA, $R_{\rm L}$ = 100 Ω	t _{rr}			5	ns

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RoHS



FREE

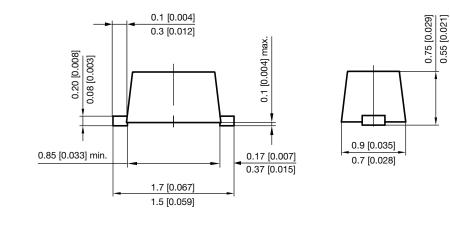
GREEN

(5-2008)

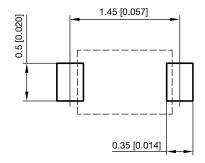


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PACKAGE DIMENSIONS in millimeters [inches]: SOD-523



1.3 [0.051] 1.1 [0.043] Footprint recommendation:



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