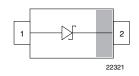


Vishay Semiconductors

Small Signal Schottky Diode





DESIGN SUPPORT TOOLS click logo to get started



MECHANICAL DATA

Case: SOD-523

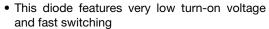
Weight: approx. 1.4 mg

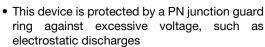
Molding compound flammability rating: UL 94 V-0 Terminals: high temperature soldering guaranteed:

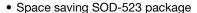
260 °C/10 s at terminals Packaging codes/options:

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

FEATURES







 Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>





RoHS

FREE GREEN (5-2008)

PARTS TABLE						
PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS		
BAS40-02V-V-G	BAS40-02V-V-G-08	Single	.W	Tape and reel		

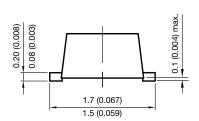
ABSOLUTE MAXIMUM RATINGS (T _{amb} = 25 °C, unless otherwise specified)					
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT	
Repetitive peak reverse voltage		V_{RRM}	40	V	
Forward continuous current		I _F	120	mA	
Surge forward current		I _{FSM}	600	mA	
Power dissipation		Pt _{ot}	150	mW	

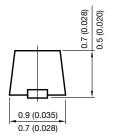
THERMAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)					
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT	
Thermal resistance junction to ambient air		R _{thJA}	680	K/W	
Junction temperature		Tj	125	°C	
Storage temperature range		T _{stg}	-55 to +150	°C	

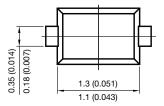
ELECTRICAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL	MIN.	TYP.	MAX.	UNIT
Reverse breakdown voltage	I _R = 10 μA (pulsed)	V _(BR)	40			V
Leakage current	Pulse test $V_R = 30 \text{ V}$, $t_p < 300 \mu\text{s}$	I _R		20	100	nA
Forward voltage	Pulse test $t_p < 300 \mu s$, $I_F = 1 mA$	V _F			380	mV
	Pulse test $t_p < 300 \mu s$, $I_F = 40 \text{ mA}$	V _F			1000	mV
Diode capacitance	$V_R = 0 V, f = 1 MHz$	C _D		4	5	pF
Reverse recovery time	$I_F = 10 \text{ mA}, I_R = 10 \text{ mA}, I_{rr} = 1 \text{ mA}, R_L = 100 \Omega$	t _{rr}			5	ns

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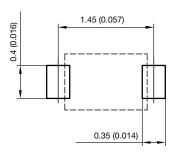
PACKAGE DIMENSIONS in millimeters (inches): SOD-523







foot print recommendation:



Document no.: S8-V-3880.02-001 (4)

Rev. h - Date: 13. Oct. 2010

16864

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