

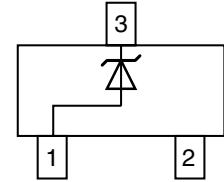
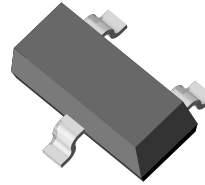
Small Signal Zener Diodes

Features

- Silicon planar low noise zener diodes.
- 350 mW high quality voltage regulator designed for low leakage, low current and low noise applications
- 5 % tolerance on V_Z
- High temperature soldering guaranteed: 260 °C/4 x 10 s at terminals.
- Compliant to RoHS directive 2002/95/EC and in accordance to WEEE 2002/96/EC



RoHS
COMPLIANT



18078

Mechanical Data

Case: SOT-23

Weight: approx. 8.8 mg

Terminals: solderable per MIL-STD-750, method 2026

Packaging codes/options:

GS18/10 k per 13" reel (8 mm tape), 10 k/box

GS08/3 k per 7" reel (8 mm tape), 15 k/box

Absolute Maximum Ratings

$T_{amb} = 25\text{ °C}$, unless otherwise specified

Parameter	Test condition	Symbol	Value	Unit
Power dissipation		P_{tot}	350 ¹⁾	mW
Forward voltage, maximum	$I_F = 200\text{ mA}$	V_F	1.1	V
Forward voltage, typical	$I_F = 200\text{ mA}$	V_F	0.97	V

Note

¹⁾ On FR - 5 board using recommended solder pad layout

Thermal Characteristics

$T_{amb} = 25\text{ °C}$, unless otherwise specified

Parameter	Test condition	Symbol	Value	Unit
Maximum junction temperature		T_j	150	°C
Storage temperature range		T_S	- 55 to + 150	°C
Thermal resistance junction to ambient air		R_{thJA}	420 ¹⁾	°C/W

Note

¹⁾ On FR - 5 board using recommended solder pad layout

MMBZ4617-V to MMBZ4627-V



Vishay Semiconductors

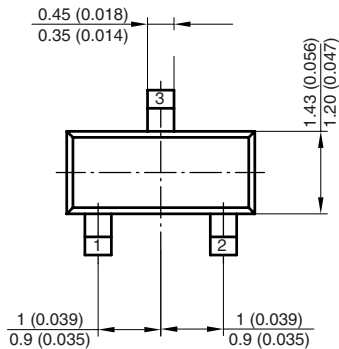
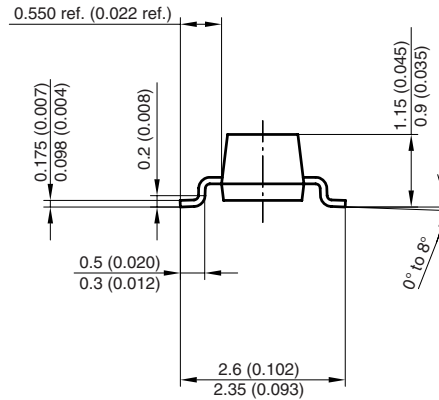
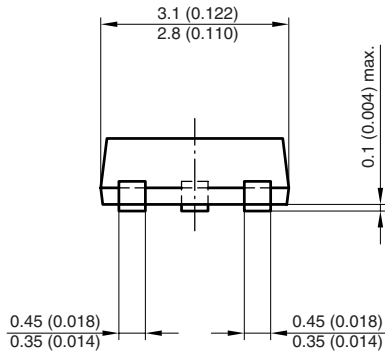
Electrical Characteristics

Part number	Marking code	Zener voltage ¹⁾	Test current	Maximum zener impedance	Maximum reverse leakage current		Maximum zener current	Maximum noise density
		V_Z at I_{ZT}	I_{ZT}	Z_{ZT} at I_{ZT}	I_R	V_R	I_{ZM}	N_D at $I_{ZT} = 250 \mu A$
		V	μA	Ω	μA	V	mA	$\mu V/\sqrt{Hz}$
MMBZ4617-V	G17	2.4	250	1400	2	1	95	1
MMBZ4618-V	G18	2.7	250	1500	1	1	90	1
MMBZ4619-V	G19	3	250	1600	0.8	1	85	1
MMBZ4620-V	G20	3.3	250	1650	7.5	1.5	80	1
MMBZ4621-V	G21	3.6	250	1700	7.5	2	75	1
MMBZ4622-V	G22	3.9	250	1650	5	2	70	1
MMBZ4623-V	G23	4.3	250	1600	4	2	65	1
MMBZ4624-V	G24	4.7	250	1550	10	3	60	1
MMBZ4625-V	G25	5.1	250	1500	10	3	55	2
MMBZ4626-V	G26	5.6	250	1400	10	4	50	4
MMBZ4627-V	G27	6.2	250	1200	10	5	45	5

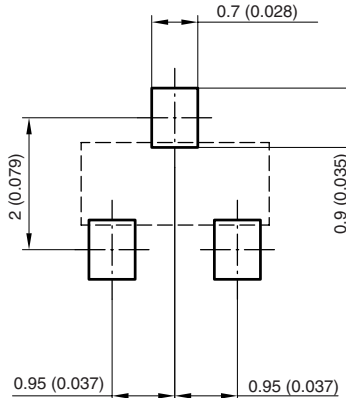
Note:

¹⁾ V_Z tested with 5 ms pulse

Package Dimensions in millimeters (inches): SOT-23



Mounting pad layout



Document no.: 6.541-5014.01-4
Rev. 8 - Date: 23. Sep. 2009
17418



Disclaimer

All product specifications and data are subject to change without notice.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

Vishay disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein, which apply to these products.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay for any damages arising or resulting from such use or sale. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.