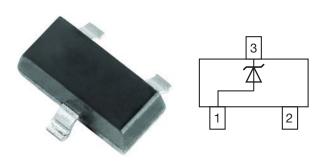


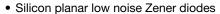
Vishay Semiconductors

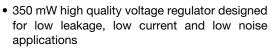
Small Signal Zener Diodes



PRIMARY CHARACTERISTICS							
PARAMETER	VALUE	UNIT					
V _Z range nom.	2.4 to 6.2	V					
Test current I _{ZT}	0.25	mA					
V _Z specification	Pulse current						
Int. construction	Single						

FEATURES







- ± 5 % tolerance on V₇
- High temperature soldering guaranteed: 260 °C/4 x 10 s at terminals
- RoHS
 COMPLIANT
 GREEN
 (5-2008)

- AEC-Q101 qualified
- ESD capability according to AEC-Q101: Human body model > 8 kV Machine model > 800 V
- Base P/N-G3 green, commercial grade
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912

ORDERING INFORMATION							
DEVICE NAME	ORDERING CODE	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY				
MMBZ4617-G to MMBZ4627-G	MMBZ4617-G3-08 to MMBZ4627-G3-08	3000 (8 mm tape on 7" reel)	15 000				
	MMBZ4617-G3-18 to MMBZ4627-G3-18	10 000 (8 mm tape on 13" reel)	10 000				

PACKAGE								
PACKAGE NAME WEIGHT		MOLDING COMPOUND FLAMMABILITY RATING	MOISTURE SENSITIVITY LEVEL	SOLDERING CONDITIONS				
SOT-23	8.8 mg	UL 94 V-0	MSL level 1 (according J-STD-020)	260 °C/10 s at terminals				

ABSOLUTE MAXIMUM RATINGS (T _{amb} = 25 °C, unless otherwise specified)							
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT			
Power dissipation	On FR - 5 board using recommended solder pad layout	P _{tot}	350	mW			
Forward voltage, maximum	I _F = 200 mA	V_{F}	1.1	V			
Forward voltage, typical	I _F = 200 mA	V _F	0.97	V			
Thermal resistance junction to ambient air	On FR - 5 board using recommended solder pad layout	R _{thJA}	420	°C/W			
Junction temperature		Tj	150	°C			
Storage temperature range		T _{stg}	- 55 to + 150	°C			
Operating temperature range		T _{op}	- 55 to + 150	°C			



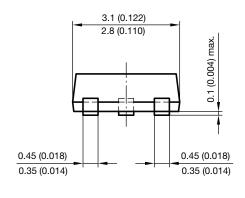
www.vishay.com

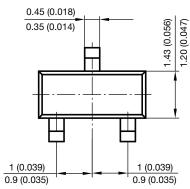
Vishay Semiconductors

ELECTRICAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)										
PART NUMBER	MARKING	ZENER VOLTAGE RANGE (1) V _Z at I _{ZT1}		TEST CURRENT	REVERSE LEAKAGE CURRENT		DYNAMIC RESISTANCE	ZENER CURRENT	NOISE DENSITY	
	CODE			I _{ZT1} I _R at V _R	Z _{ZT} at I _{ZT1}	I _{ZM}	N _D at I _{ZT1}			
		V		mA	μΑ	V	Ω	mA	μV/√Hz	
		MIN.	NOM.	MAX.		MAX.		MAX.	MAX.	MAX.
MMBZ4617-G	GA7	2.280	2.4	2.520	0.25	2	1	1400	95	1
MMBZ4618-G	GA8	2.565	2.7	2.835	0.25	1	1	1500	90	1
MMBZ4619-G	GA9	2.850	3	3.150	0.25	0.8	1	1600	85	1
MMBZ4620-G	GB0	3.135	3.3	3.465	0.25	7.5	1.5	1650	80	1
MMBZ4621-G	GB1	3.420	3.6	3.780	0.25	7.5	2	1700	75	1
MMBZ4622-G	GB2	3.705	3.9	4.095	0.25	5	2	1650	70	1
MMBZ4623-G	GB3	4.085	4.3	4.515	0.25	4	2	1600	65	1
MMBZ4624-G	GB4	4.465	4.7	4.935	0.25	10	3	1550	60	1
MMBZ4625-G	GB5	4.845	5.1	5.355	0.25	10	3	1500	55	2
MMBZ4626-G	GB6	5.320	5.6	5.880	0.25	10	4	1400	50	4
MMBZ4627-G	GB7	5.890	6.2	6.510	0.25	10	5	1200	45	5

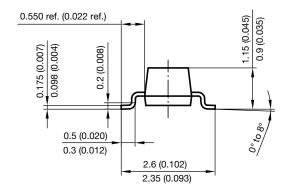
Note

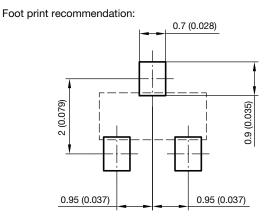
PACKAGE DIMENSIONS in millimeters (inches): SOT-23





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





 $^{^{(1)}}$ V_Z tested with 5 ms pulse



Legal Disclaimer Notice

Vishay

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

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 in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

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