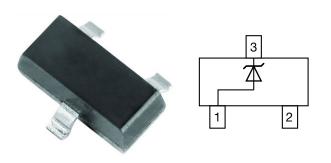


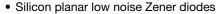
### Vishay Semiconductors

# **Small Signal Zener Diodes**

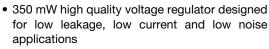


PRIMARY CHARACTERISTICS						
PARAMETER	VALUE	UNIT				
V <sub>Z</sub> range nom.	2.4 to 6.2	V				
Test current I <sub>ZT</sub>	0.25	mA				
V <sub>Z</sub> specification	Pulse current					
Int. construction	Single					

#### **FEATURES**









- 5 % tolerance on V<sub>7</sub>
- High temperature soldering guaranteed: 260 °C/4 x 10 s at terminals
- AEC-Q101 qualified
- Compliant to RoHS Directive 2002/95/EC and in accordance to WEEE 2002/96/EC

ORDERING INFORMATION							
DEVICE NAME	ORDERING CODE	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY				
MMBZ4617-V to MMBZ4627-V	MMBZ4617-V to MMBZ4627-V-series-GS18	10 000 (8 mm tape on 13" reel)	10 000/box				
MMBZ4617-V to MMBZ4627-V	MMBZ4617-V to MMBZ4627-V-series-GS08	3000 (8 mm tape on 7" reel)	15 000/box				

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



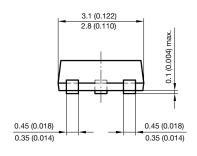
#### www.vishay.com

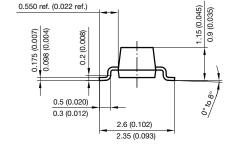
# Vishay Semiconductors

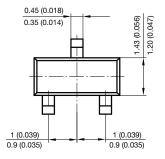
<b>ELECTRICAL CHARACTERISTICS</b> (T <sub>amb</sub> = 25 °C, unless otherwise specified)										
PART NUMBER	MARKING CODE	ZENER V	OLTAGE	RANGE (1)	TEST CURRENT	LEA	ERSE KAGE RENT	DYNAMIC RESISTANCE	ZENER CURRENT	NOISE DENSITY
				I <sub>ZT1</sub>	I <sub>R</sub> at V <sub>R</sub>		Z <sub>ZT</sub> at I <sub>ZT1</sub>	I <sub>ZM</sub>	N <sub>D</sub> at I <sub>ZT1</sub>	
		V			μ <b>A</b> V		Ω	mA	μ <b>V</b> /√Hz	
		MIN.	NOM.	MAX.		MAX.		MAX.	MAX.	MAX.
MMBZ4617-V	G17	2.280	2.4	2.520	0.25	2	1	1400	95	1
MMBZ4618-V	G18	2.565	2.7	2.835	0.25	1	1	1500	90	1
MMBZ4619-V	G19	2.850	3	3.150	0.25	0.8	1	1600	85	1
MMBZ4620-V	G20	3.135	3.3	3.465	0.25	7.5	1.5	1650	80	1
MMBZ4621-V	G21	3.420	3.6	3.780	0.25	7.5	2	1700	75	1
MMBZ4622-V	G22	3.705	3.9	4.095	0.25	5	2	1650	70	1
MMBZ4623-V	G23	4.085	4.3	4.515	0.25	4	2	1600	65	1
MMBZ4624-V	G24	4.465	4.7	4.935	0.25	10	3	1550	60	1
MMBZ4625-V	G25	4.845	5.1	5.355	0.25	10	3	1500	55	2
MMBZ4626-V	G26	5.320	5.6	5.880	0.25	10	4	1400	50	4
MMBZ4627-V	G27	5.890	6.2	6.510	0.25	10	5	1200	45	5

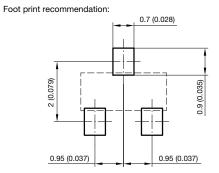
#### Note

#### PACKAGE DIMENSIONS in millimeters (inches): SOT-23









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 $<sup>^{(1)}</sup>$   $V_Z$  tested with 5 ms pulse



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