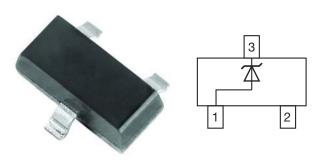


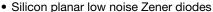
Vishay Semiconductors

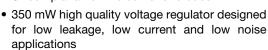
Small Signal Zener Diodes



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
- AEC-Q101 qualified
- ESD capability according to AEC-Q101: Human body model > 8 kV Machine model > 800 V
- Base P/N-E3 RoHS-compliant, commercial grade
- Base P/N-HE3 RoHS-compliant, AEC-Q101 qualified
- Material categorization: For definitions of compliance please see <u>www.vishay.com/doc?99912</u>

ORDERING INFORMATION							
DEVICE NAME	ORDERING CODE	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY				
MMBZ4617 to MMBZ4627	MMBZ4617-E3-08 to MMBZ4627-E3-08	3000 (8 mm tape on 7" reel)	15 000/box				
	MMBZ4617-HE3-08 to MMBZ4627-HE3-08						
	MMBZ4617-E3-18 to MMBZ4627-E3-18	10 000 (0 mm tone on 10" year)	10 000/box				
	MMBZ4617-HE3-18 to MMBZ4627-HE3-18	10 000 (8 mm tape on 13" reel)					

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			

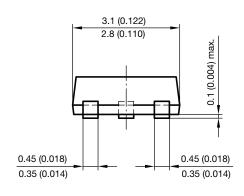


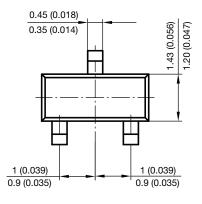
Vishay Semiconductors

ELECTRICAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)										
PART NUMBER	MARKING CODE	ZENER VOLTAGE RANGE (1) V _Z at I _{ZT1}		TEST CURRENT	REVERSE LEAKAGE CURRENT	DYNAMIC ZENER CURRENT	NOISE DENSITY			
				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	G17	2.280	2.4	2.520	0.25	2	1	1400	95	1
MMBZ4618	G18	2.565	2.7	2.835	0.25	1	1	1500	90	1
MMBZ4619	G19	2.850	3	3.150	0.25	0.8	1	1600	85	1
MMBZ4620	G20	3.135	3.3	3.465	0.25	7.5	1.5	1650	80	1
MMBZ4621	G21	3.420	3.6	3.780	0.25	7.5	2	1700	75	1
MMBZ4622	G22	3.705	3.9	4.095	0.25	5	2	1650	70	1
MMBZ4623	G23	4.085	4.3	4.515	0.25	4	2	1600	65	1
MMBZ4624	G24	4.465	4.7	4.935	0.25	10	3	1550	60	1
MMBZ4625	G25	4.845	5.1	5.355	0.25	10	3	1500	55	2
MMBZ4626	G26	5.320	5.6	5.880	0.25	10	4	1400	50	4
MMBZ4627	G27	5.890	6.2	6.510	0.25	10	5	1200	45	5

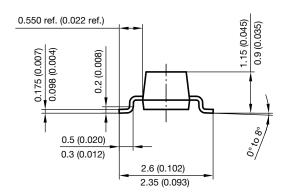
Note

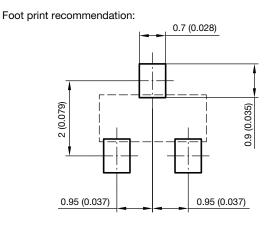
PACKAGE DIMENSIONS in millimeters (inches): SOT-23











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



Legal Disclaimer Notice

Vishay

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Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

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